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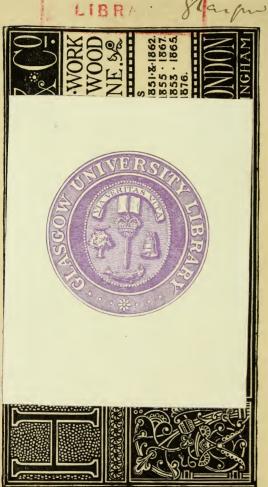
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Candidate; for the License must have been engaged in professional study during forty-five months from the date of Registration, and in actual attendance at a University or School of Medicine recognized by the Faculty, during not less than four Winter Sessions, or three Winter and two Summer Sessions, and must have completed the following curriculum, viz.: Anatomy, Two Six Months' Courses; Practical Anatomy, Twelve Months; Chemistry, Physiology, Medicine, Surgery, Clinical Medicine, and Clinical Surgery, each one course of Six Months. Another Six Months' course of Surgery, or Clinical Surgery, at the option of the Candidate; Practical Chemistry, Medical Jurisprudence, Midwifery, and Materia Medica, each one course of Three Months; instruction in Pathological Anatomy and Practical Pharmacy, each Three Months; Hospital Practice, Twenty-four Months. The Candidate must also produce Certificates of Proficiency in Vaccination, and of having attended at least Six cases of Labour.

The First Examination embraces Anatomy, Chemistry, and Physiology, and cannot be undergone before the end of the Second Winter Session of study. The Second Examination embraces the remaining subjects of the curriculum, and cannot be undergone before the termination of the full period of study. The Fee is Fifteen Guineas, of which the Candidate pays Six Guineas at the

first, and Nine Guineas at the second Examination.

The Examinations will be held at four periods every year; the precise dates will be learned on application to the Secretary. A Candidate, on showing a sufficient reason for it, may be admitted to Examination on a day specially arranged, by paying an extra Fee of £5 5s. Candidates who have passed the Examination in Anatomy, Physiology, and Chemistry, before any of the Licensing bodies enumerated in Schedule (A) of the Medical Act, are exempt from the First Professional Examination. Graduates and Licentiates in Medicine are also exempt from Examination in Medicine and Materia Medica.

## II.—THE DOUBLE QUALIFICATION.

The Faculty of Physicians and Surgeons of Glasgow and the Royal College of Physicians of Edinburgh also grant their Diplomas conjointly after Examination before a Board of Examiners in which each body is represented; the object being to give to Students facilities for obtaining from two separate bodies, and at a less expense, a Double qualification in Medicine and Surgery. The curriculum of study embraces a course of Medicine in addition to the subjects required for the Diploma of the Faculty. The Fee for the two Diplomas is Twenty Guineas, of which the Candidate pays Eight Guineas at the First, and Twelve Guineas at the Second Examination. The dates of the quarterly periods of Examination may be learned on application to the Secretary of the Faculty.

Copies of the Regulations for the Single and the Double Qualifications, of which the above is an Abstract, and of the Lists of Subjects for the Preliminary

Examinations of the Faculty, may be had on application.

ALEXANDER DUNCAN, B.A., Secretary.

FACULTY HALL, 242 St. Vincent Street, May, 1881.

## Glasgow Royal Jufirmary School of Medicine.

#### EMPOWERED BY ROYAL CHARTER.

## LECTURES-Winter Session.

Chemistry—John Clark, Ph.D. Anatomy—H. E. Clark, M.R.C.S.E. Physiology—W. J. Fleming, M.D. Surgery—Wm. M'Ewen, M.D. Medicine—A. Wood Smith, M.D. Materia Medica—John Dougall, M.D.

### Summer Session.

Practical Chemistry—John Clark, Ph.D. Anatomy—Mr. Clark.
Practical Physiology—Dr. Fleming. Pathology—D. Foulis, M.D.
Operative Surgery—Dr. M'Ewen. Forensic Medicine—John Glaister, M.D.
Midwifery—James Stirton, M.D. Diseases of the Ear—Johnston Macfie, M.D.
Diseases of the Teeth—J. C. Woodburn, M.D.

FEES—First Course, £2 2s.; Second and Perpetual, £1 1s.; Anatomy (including Anatomical Demonstrations and Practical Anatomy) First Session, £4 4s.; Second Session, £4 4s.; afterwards £1 1s. per Session. Summer Course of Practical Anatomy, with Demonstrations, £1 11s. 6d.

Of the curriculum of Four Years of study required for Medical Graduation in the University of Glasgow, two years may be taken at the Royal Infirmary Medical School. Attendance on the Hospital practice and on the Clinical Lectures is recognized by the University without any restriction. The Fee for any Class taken for graduation in Glasgow must be the same as that for the corresponding Class in the University.

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M. THOMAS, M.D., Superintendent.

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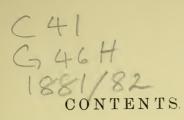
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Summer Session commences.

Payment of Tradesmen's and other Accounts.

#### JUNE 1881.

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29 W 30 Th Names of Candidates for Final Professional Examination in Medicine, given in to Assistant-Clerk of Senate.

Clinical Examinations begin.

Theses for M.D. given in to Assistant-Clerk of Senate.

### JULY 1881.

Final Professional Written Examination for Degrees in Medicine.

#### AUGUST 1991

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#### SEPTEMBER 1881.

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Names of Candidates for Examination in General Education given in to Assistant Clerk of Senate.

Names of Candidates for First, Second and Third Professional Examinations in Medicine given in to Assistant-Clerk of Senate.

#### OCTOBER 1881.

SM 2 Tu 4 ŵ 5 Th FSSM 78 9 Tu II W Th F 13 14 SM 15 17 Tu W 19 Th 20 F 21 S M Tu 23 24 W 26 Th F 29 S SM 30

Names of Candidates for examination for Degrees in Law, Arts and Science, and for Certificates in Engineering Science, given in to Assistant-Clerk of Senate. Regulations for Written Examinations published. Names of Candidates for Scholarships, &c., given in to Assistant-Clerk of Senate.

Preliminary Examination of Medical Students.

) First Professional Written Examination for Degrees in Medicine.

Second do. do. do.

Matriculation for the year commences.

[Theses for M.D. given in to the Assistant-Clerk of Senate. Competition for Rainy, Lorimer (Med.) and M. Kerr (Chem.) Bursaries. (Thursday before last Tuesday). Sacramental Fast.
Names of Competitors for Bursaries and for Preliminary Examinations

in Arts given in to the Assistant-Clerk of Senate.

[Tradesmen's and other Accounts for preceding half-year. Classes in Faculties of Law and Medicine meet. Last day for receiving (Wed. before opening of Session.) General Council meets. 26, 27, 28. Examinations in Law Subjects for Degrees in Law.

Bursary Competition and Preliminary Examinations in Arts commence. Examinations for M.A., B.L. (Arts subjects), &c., commence.

#### NOVEMBER 1881.

Tu W 2 Th 3 F 4 S 5 SM 7 Tu W 9 IO Th F ıі S 12 SM 13 14 Tu 15 16 W Th 17 F SSM 19 20 21 Tu 22 W 23

Th

FSSM

Tu

W

24

29

30

Public Opening of the University.

Classes meet.

Meeting of Senate.\* Election of Library and other Committees. Proposals for Honorary Degrees received. (4.) Names of Candidates for Bursaries in Divinity to be given in to Clerk of Senate. (5.) Examination for Arnott Prizes. (5.) Principal's address at 12 noon.

(10, 11, 12.) Examinations for Bursaries in Divinity.
) Examinations in Hebrew and Biblical Criticism for Degree of B.D., and

Examinations in Hebrew and Biblical Criticism for Degree of B.D., and for the Black Theological Fellowship and Findlater Scholarship.

Last day for giving in University Prize Essays.

Graduation. Professors' Accounts for small Class expenses to be given in.

(Last Thursday.) Meeting of Senate on Accounts.

Matriculation ends.

#### DECEMBER 1881.

Th 2 F S 3 SM 4 5 Tu W 78 Th F 9 S TO Š ΙI 12  $T_{11}$ 13 14 W Th 15 FSSM 17 18 19 Tu 20 ŵ 21 Th 22 F 23 ŝ 24 SM 25 26 27 Tu 28 W

Th

29 T 30 F 31 S Class List transmitted by each Professor to Assistant-Clerk of Senate.

(Second Thursday.) Meeting of Senate. Election of Armagh Bursar. List of Vacant Bursaries published.

Payment of Tradesmen's Accounts.

Christmas Holidays commence.

<sup>\*</sup>A Meeting of Senate is held on the Thursday of every week in the Winter Session.

#### JANUARY 1882.

S M Tu W 1 2 3 Classes re-open. 4 Th F S M Tu W 5 78 9 10 11 Th (Second Thursday.) Meeting of Senate. Vacant Bursaries filled up. 12 F S M Tu Appointment of Finance and other Committees. 13 14 15 16 17 18 W Th F 19 20 SM 21 22 23 Tu 24 W 25 26 Th  $\hat{\mathbf{F}}$ 27 SSM [Professor Berry elected Assessor in the University Court, 29th Jan., 1880.] 28 29 Holiday (Monday after last Friday of January). 30 Tu 31

#### FEBRUARY 1882.

W \*Holiday (for Candlemas). т Th 2 F S M 3 4 56 78 Tu Th FS M (Second Thursday.) Meeting of Senate. 9 10 11 12 13 Tu 14 ŵ 15 Th F S S M Tu 17 18 19 20 21 W 22 Th 23 F S M Tu 24 25 26 Holiday (Monday after last Friday of February). 27 28

<sup>\*</sup>The Candlemas and Monthly Holidays are not observed in the Medical Faculty.

#### MARCH 1882.

Th F > 3 S 4 SM 5 Tu W 9 Th F TO ŝ 11 S M Tu 12 13 14 w 15 Th  $\mathbf{F}$ 17 ŝ 18 S M IQ 20 Tu 21 W 22 Th 23 FS 24 25 Š 26 27 28 Tu w 20 Th 30 F 31

Meeting of Senate. Proposals for Honorary Degrees received.

Last day for lodging applications for Examination for Degrees in Law, Arts and Science, and for Certificates in Engineering Science.

Names of Applicants for First, Second, and Third Professional Examinations in Medicine given in to Assistant-Clerk of Senate.

Names of Candidates for Examination in General Education given in. Last day for receiving Tradesmen's and other Accounts for preceding half-year.

Theses for M.D. given in to Assistant-Clerk of Senate.

(Second last Thursday.) Meeting of Senate. Election of Commissioner to General Assembly. Snell Examiners appointed. Engineering Examinations for B.Sc. commence.

Holiday (Monday after Penult Friday).

Professors' Accounts of Class Expenses to be given in.

Preliminary Examination of Medical Students.

Preliminary Examination of Medical Students.

#### APRIL 1882.

1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 5 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	SSM TuWTh FSSM TuWTh FSSM TWWTh F
30	3

Winter Classes in Faculties of Law and Medicine close. (Thursday before 2nd Tuesday.) Sacramental Fast.

Second Professional Written Examination for Degrees in Medicine.

Third do. do. d

(12-14.) Examination in Law Subjects for Degrees in Law.
(13, 14.) Examinations for Degree of B.D. (Second Thursday.) Meet-Last day for returning Books to Library. [ing of Senate on Accounts. Examinations for Degrees in Law (Arts Subjects), Arts, and Science. and for Snell Exhibitions commence.

Meeting of Senate. Vacant Bursaries declared.

Meeting of Professors for adjudging University and other Prizes.

Library Re-opened.

(Wednesday before close of Session.) Meeting of General Council.

Graduation in the Four Faculties. Honorary Graduation. Distribution (For May 1st, Meeting of Senate.)

<sup>\*</sup> The Examinations in Engineering commence on the 24th of March.

### MAY 1882.

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16	Tu
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17	· · ·
13	Th

S M Tu W

Th F S M Tu W

19

Summer Session commences.

Payment of Tradesmen's and other Accounts.

#### JUNE 1882.

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5	M
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8	Th
9	F
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12	M
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Th 29 30 F

Names of Candidates for Final Professional Examination in Medicine given in to Assistant-Clerk of Senate.

Clinical Examinations begin.

Theses for M.D. given in to Assistant-Clerk of Senate.

### JULY 1882. S S M T W Th F S S M T W Th F S S M T W TH F S S M T W 2 3 4 5 6 7 8 Final Professional Written Examination for Degrees in Medicine. II 26 Th F S M\* 28

<sup>\*</sup> On Tuesday, August 1st, Meeting of Senate. Graduation in Medicine.

## UNIVERSITY OFFICERS.

CHANGELLOR.

# WALTER-FRANCIS, DUKE OF BUCCLEUCH AND QUEENSBERRY, K.G.

VICE-CHANCELLOR-

JOHN CAIRD, D.D.

RECTOR.

## THE RIGHT HON. JOHN BRIGHT, M.P.

PRINCIPAL.

## JOHN CAIRD, D.D.

## University Court.

		Appointed			
PRESIDENT,-THE RECTOR OF THE U	NIV	ERSITY,1880			
THE PRINCIPAL,		1873			
JAMES KING, Esq., Dean of Faculties,		1879			
J. A. CAMPBELL, LL.D., Assessor nominated by Chancellor,1878					
CHAS. CAMERON, M.D., LL.D., M.P.,	,,	Rector,1880			
ANDERSON KIRKWOOD, LL.D.,	,,	General Council, 1871			
Professor Berry, M.A.,	,,	Senate,1880			

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Profess	CHAIRS.	Appointed.
William Purdie Dickson, D.D.,	Divinity,	1873
Sir William Thomson, LL.D., D.C.L.,	Natural Philosophy	,1846

<sup>&</sup>quot;"The precedency of the Masters in point of ceremony shall, in all time coming, be, that the Professor of Divinity take place first after the Principal, and that all the other Masters and Professors of whatever kind take place of other according to the seniority and time of their admissions into their respective offices."—Statute of Royal Visitation, 1727.

#### PROFESSORS-Continued.

	Chairs.	
Robert Grant, LL.D.,	Practical Astronomy	,1859
John Nichol, LL.D.,	English Language and Literature,	1862
William T. Gairdner, M.D.,	.Practice of Medicine	,1862
George G. Ramsay, LL.D.,	.Humanity,	1863
John Veitch, LL.D.,	.Logic and Rhetoric,	1864
Edward Caird, LL.D.,		
John Young, M.D.,	.Natural History,	1866
James Roberton, LL.D.,	.Conveyancing,	1867
Robert Berry, M.A., Advocate,	.Law of Scotland,	1867
William Leishman, M.D.,	.Midwifery,	1868
George H. B. MacLeod, M.D.,	.Surgery,	1869
Pierce A. Simpson, M.D.,	Forensic Medicine,	1872
James Thomson, LL.D., D.Sc $\big\langle$	Civil Engineering \ and Mechanics, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1873
William Stewart, D.D.,	.Biblical Criticism,	1873
George Buchanan, A.M., M.D.,	.Clinical Surgery,	1874
T. M'Call Anderson, M.D.,	.Clinical Medicine,	1874
John Ferguson, M.A.,	.Chemistry,	1874
William Lee, D.D.,	.Church History,	1874
Richard C. Jebb, LL.D.,		
John Gray M'Kendrick, M.D.,	Institutes of Medicine	,1876
James Robertson, D.D.,	Oriental Languages,.	1877
John Cleland, M.D.,	<i>Λnatomy</i> ,	1877
Bayley Balfour, M.B., D.Sc.,	Botany,	1879
William Jack, LL.D.,	Mathematics,	1879
Matthew Charteris, M.D.,	Materia Medica,	1880
	TURERS.	
John Young, M.D.,	Honyman Gillespic L	ccturer.
Thomas Reid, M.D		

William Galbraith Miller, LL.B., Public Law.

David Yellowlees, M.D.,...........Insanity.

Alexander Ure, LL.B.,............Constitutional Law and History.

#### ASSISTANTS TO PROFESSORS.

Humanity,...... E. A. Sonnenschein, M.A. John H. Muirhead, B.A.

Greek, ......Alexander Murdoch.

Nat. Philosophy,...... Andrew Gray, M.A.

Mathematics, { Jas. Wood, M.A., Fellow of Queen's Col., Camb'ge. J. C. Watt, M.A., Fellow of Jesus' Col., do.

Chemistry,...... John Hutcheson. James J. Dobbie, D.Sc.

Materia Medica,..... Alexander Napier, M.D.

Forensic Medicine, ... Donald Munro.

Institutes of Medicine, J. M'Gregor-Robertson, M.B.

Practice of Medicine, George S. Middleton, M.B.

Arnott and Thomson Demonstrator \( \) Jas. Thomson Bottomley, in Experimental Physics, \( \)......\( \) M.A.

Young Assistant in Civil Engineering

and Mechanics, ...... Archibald Barr, B.Sc.

Muirhead Demonstrator of Physiology, J.M'Gregor-Robertson, M.B

#### EXAMINERS FOR DEGREES.

In Divinity.—The Professors in the Faculty of Divinity.

In Law.—The Professors in the Faculty of Law, assisted by John M'K. Lees, LL.B., Sheriff-Substitute, Glasgow. George Readman, LL.B., Advocate. William Galbraith Miller, LL.B.

In Medicine.—The Professors in the Faculty of Medicine, assisted by

H. S. Wilson, M.D. Robert Perry, M.D. John Brunton, M.D. Andrew Wilson, Ph.D. Joseph Coats, M.D. Donald Fraser, M.D. Hector C. Cameron, M.D. Alex. Macalister, M.D.

In Arts.—The Professors of Humanity, Greek, Logic, Moral Philosophy, Natural Philosophy, Mathematics, and English Literature, assisted by

In Science.—Professor Sir Wm. Thomson, D.C.L., Professor Grant, LL.D., Professor Young, M.D., Professor J. Thomson, D.Sc., Professor Ferguson, M.A., Professor M'Kendrick, M.D., Professor Cleland, M.D., Professor Balfour, M.B., D.Sc., Professor Jack, LL.D.

<sup>\*</sup> Mr. Hutchison's term of office expires in September.

KEEPER OF HUNTERIAN LIBRARY AND MUSEUM.
Professor Young, M.D.

UNDER-KEEPER.
John Young, F.G.S.

ASSISTANT LIBRARIAN OF HUNTERIAN MUSEUM.

John Young, B.Sc.

CURATOR OF LIBRARY.
Professor W. P. Dickson, D.D.

LIBRARIAN.
James Lymburn.

SUB-LIBRARIANS.

William Richardson. John Young, B.Sc.

Secretary to the University Court.

Anderson Kirkwood, LL.D., 145 West George Street.

CLERK OF SENATE.

Professor Stewart, D.D., 18 Annfield Terrace, Partickhill.

Assistant-Clerk of Senate and Registrar of the General Council  ${\bf Thomas\ Moir}.$ 

Secretary to the General Council.

David Hannay, 209 West George Street.

FACTORS.

Messrs. Hill, Davidson, & Hoggan, 106 Ingram Street.

LAW AGENTS.

Messrs. Mitchells, Cowan, & Johnston, 160 West George Street.

PUBLISHER AND BOOKSELLER TO THE UNIVERSITY.

James MacLehose, 61 St. Vincent Street.

PRINTER TO THE UNIVERSITY.

Robert MacLehose, 153 West Nile Street.

HEAD SERVANTS.

Bedellus and Janitor, . . . Lauchlan M'Pherson.

Master of Works, . . . David Stewart.

## I.—THE UNIVERSITY.

The University of Glasgow is a corporate body, which has always included a Chancellor, Rector, Dean of Faculties, Principal, Professors, and Students. It was originally founded, like most other ancient establishments of the same nature, by the authority of the See of Rome. Pope Nicholas V, by a bull, dated the seventh of January, 1450-1, erects and establishes in Glasgow a "Studium Generale . . . tam in theologia ac jure canonico et civili, quam in artibus, et quavis alia licita facultate." He then declares that this University shall have the same power of creating Masters and Doctors as any other "studium generale" in Christendom, and appoints the Bishop of Glasgow and his successors, Chancellors and Rectors by his authority. same year a body of statutes was prepared, and the University established by the exertions of the Bishop and his Chapter. It consisted, at this time, of the Chancellor and Rector, of various Masters and Doctors in the Faculties of Theology, Canon Law, and the Arts; and, lastly, of the incorporated students in these Faculties, who might be promoted to the same degrees in each, after following out the course of study prescribed in the statutes.

The University, at this time, had received no endowments, and was possessed of no property, except a University purse, into which were put some small perquisites on conferring degrees, and the patronage of two or three small chaplainries. It continued, however, to discharge its important functions with great zeal and activity, and attracted a greater number of members than could well have been expected in that rude period of society. The University Records contain little information as to lectures delivered in the Higher Faculties, or the number of the students who attended them. But we learn that within three or four years after the establishment of the University, so many young men were matriculated in the Faculty of Arts, that it was thought expedient to provide a house in which they

might reside, and to secure a regular set of teachers for their instruction.

The house provided for the accommodation of the students in Arts was known by the name of Pædagogium, or the College of Arts. It is said to have been situated in the Rottenrow; but in the year 1460, James, Lord Hamilton, bequeathed to Mr. Duncan Bunch, principal Regent of the College of Arts, and his successors, Regents, for the use of the said College, a tenement in the High Street, with four acres of land adjoining. In buildings situated on this ground the classes of the University continued to meet for four hundred and ten years.

The Reformation produced at first great disorder in the University, its members being clergymen of the Catholic persuasion, and its chief support being derived from the Church. In 1577, James VI prescribed very particular rules with regard to the College and the form of its government, and made a considerable addition to its funds. The charter by which the king made these regulations, and gave that property, is known by the name

of Nova Erectio.

By this charter, provision was made for the support of a Principal, who was to teach Theology and the Holy Scriptures, and was also Professor of Hebrew and Syriac, and three Regents, of whom one was to teach Greek and Rhetoric, another Dialectics, Morals, and Politics, with the Elements of Arithmetic and Geometry, and the third, who was also Sub-Principal, was to teach all the branches of Physiology and Geography, Chronology and Astrology. The Regents were to keep each by his own Profession, so that the student had a new Regent every year.\*

From this small beginning, the University continued to prosper till the era of the Restoration, having at that time, besides the Principal, two Professors of Theology, one of Medicine, four Regents or Professors of Philosophy, and one of Humanity, a Librarian, with a tolerable Library, an increased number of Bursars and of other students of all ranks. At the Restoration, however, being deprived of a great part of its revenues in consequence of the re-establishment of Episcopacy, three of the Professorships fell into abeyance, and the College was again reduced to a Principal,

<sup>\*</sup>This system was altered in 1642, in accordance with the practice of the other Universities; but returned to after the Revolution. The four classes necessary to Graduation in Arts were called—the first, Bajan; the second, Semi; the third, Baccalour; the fourth, Magistrand.

a Professor of Theology, and four Regents. This state of matters continued till the Revolution, when the University again began to prosper after a long period of depression.\* In the first twenty years of last century, six Professorships were either originally founded or revived—viz., those of Humanity (1706), Oriental Languages (1709), Civil Law (1713), Medicine (1713), Church History (1716), and Anatomy (1718); and to these a Professorship of Astronomy was added in 1760. The remaining fourteen Professorships were founded during the present century—viz., Natural History (1807), Surgery (1815), Midwifery (1815), Chemistry (1817), Botany (1818), Materia Medica (1831), Institutes of Medicine (1839), Forensic Medicine (1839), Civil Engineering (1840), Conveyancing (1861), English Language and Literature (1861), Divinity and Biblical Criticism (1861), Clinical Surgery (1874), Clinical Medicine (1874).

#### UNIVERSITY BUILDINGS.

The changes in the City of Glasgow, connected with the vast extension of its commerce and manufactures, having so entirely altered the character of the district in which the University Buildings were planted four hundred years ago, as to render the locality altogether unsuitable for an Academic Institution; and the buildings themselves having become, by their limited extent and defective construction, inadequate for the modern requirements of a great educational establishment; measures were adopted for the removal of the University to more extended and commodious buildings, and for this purpose a large extent of ground was secured in the lands of Gilmorehill, in the western part of the City.

In 1846, a Bill for the sale of the College grounds and buildings to the Monklands Junction Railway Company, and the transference of the University to a new site on Woodlands, was passed by both Houses of Parliament, and received the Royal assent. But that measure failed by the inability of the Railway Company to implement their engagements; and the Senate of the University found no favourable opportunity for the renewal of the scheme, till the year 1863, when a proposal for the purchase of the College lands and

<sup>\*</sup> See Dr. Thomas Reid's Account of the University of Glasgow.

buildings was made by the City of Glasgow Union Railway Company, and a sale was accordingly effected to that Company, under their Act of Parliament, in 1864, at the price of £100,000.

The funds at the disposal of the University to carry out the scheme of removal consisted of—(1.) The produce of the sale of the old College and grounds, £100,000,—(2.) A sum of £17,500, consisting of the principal sum of £10,000, obtained by the University as compensation from the Monklands Junction Company, for non-fulfilment of their agreement, with interest since the time of payment, and—(3.) A sum of £21,400, promised by Her Majesty's Government in aid of the scheme of removal, conditionally on a further sum of £24,000 being raised by public subscription, for the erection of a sick hospital in connection with the new University Buildings.

With these funds at their disposal, buildings might have been erected sufficient for the transaction of the ordinary business of instruction in the same manner as heretofore, and for the accommodation of the Library and Museum, but they must have been of the plainest design, and on a scale quite inadequate

to provide for the future extension of the University.

În these circumstances, the Senate resolved to make an earnest appeal for aid to the Government and to the public. This appeal was responded to in the most generous and gratifying manner. In a short time a sum of nearly £100,000 was subscribed, chiefly in the City of Glasgow; and the Government, appreciating the importance of the work, and the public interest it had excited, announced their intention to ask Parliament for the sum of £120,000, in six annual instalments, on condition of a like amount being raised by subscription and expended on the buildings. This sum has now been paid out of the National Treasury, and the public subscription for the University Buildings has reached the large amount of £165,924, after deduction of £30,000 allocated to the Western Infirmary.

The efforts of the University being thus seconded in so gratifying a manner by the public and the Government, new buildings, designed by the late Sir G. Gilbert Scott, were erected on the grounds of Gilmorehill; and in these buildings the classes of

the University met for the first time in session 1870-71.

#### GOVERNMENT OF THE UNIVERSITY.

Previous to the Universities Act of 1858, the whole business of the University was transacted in three distinct courts—

namely, the Senate, the Faculty, and the Comitia.

The Senate consisted of the Rector, the Dean, the Principal, and all the Professors of the University. Meetings of the Senate were held for conferring degrees, and for the management of the libraries and other matters belonging to the

University.

The Faculty, or College Meeting, consisted of the Principal, who presided, and the Professors of Divinity, Church History, Oriental Languages, Natural Philosophy, Moral Philosophy, Mathematics, Logic, Greek, Humanity, Civil Law, Medicine, Anatomy, and Practical Astronomy. The Members of Faculty had the administration of the whole revenue and property of the College, along with the right of exercising the patronage of eight professorships vested in the College. They also presented a Minister to the Parish of Govan, and had the gift of various bursaries.

The Constituent Members of the Comitia were the Rector, the Dean, the Principal, the Professors, and the Matriculated Students of the University. The Rector or Vice-Rector presided in this court, and also in the Senate. Meetings of the Comitia were held for the election and admission of the Rector, for hearing the inaugural discourses of the Principals and Professors previously to their admission to their respective offices, and for promulgating the laws of the University.

Besides these a court, called the *Jurisdictio Ordinaria*, consisting of the Principal, the four Regents (viz., the Professors of Greek, Logic, Ethics, and Physics), and the Professor of Humanity, with the gowned students, met occasionally, for the

exercise of discipline over the junior students.

By the Scottish Universities Act, 21 and 22 Vict., chap. 83, important changes were made in the constitution and government of the University. The distinction between the Faculty and the Senate was abolished; two new bodies, called the University Court, and University Council, were instituted; and Commissioners were appointed, armed with extensive powers of revision and regulation, who issued ordinances, sanctioned by Her Majesty, in accordance with which the affairs of the University are now administered.

#### CHANCELLOR

The Chancellor is the head of the University, and, by himself or his deputy, has the privilege of conferring Academical Degrees upon persons found qualified by the Senate. All changes in the internal arrangements of the University must have the sanction of the Chancellor before being carried into effect. He is elected by the General Council, of which he is president. His office is held during life. He is empowered to appoint a Vice-Chancellor, to discharge his office in his absence, so far as regards conferring Degrees, but in no other respect. The office of Vice-Chancellor has usually been, and is now, held by the Principal.

## Chancellors from the year 1642.

1642.	James Hamilton, Marquis of Hamilton	on.
1660.	William Cunningham, Earl of Glenca	
1661.	Andrew Fairfowl, Archbishop of Gla	
1664.	Alexander Burnett, ,,	,,
1670.	Robert Leighton, ",	"
1674.	Alexander Burnett, ",	"
1679.	Arthur Ross, ,,	"
1684.	Alexander Cairneross, ,,	"
1687.	John Paterson, ",	"
1691.	John Carmichael, Earl of Hyndford.	,,
1715.	James Graham, Duke of Montrose.	
1743.	William Graham, ,, ,,	
1781.	James Graham, ","	
1837.	James Graham, ,, ,,	
1875.	Sir William Stirling-Maxwell, Bart	M.P.

K.G.

1878. WALTER FRANCIS, DUKE OF BUCCLEUCH AND QUEENSBERRY.

GENERAL COUNCIL.

The General Council, as constituted by the Scottish Universities Act, 1858 (21 and 22 Vict., chap. 83), and by the Reform (Scotland) Act, 1868 (31 and 32 Vict., chap. 84), consists of the Chancellor, of the Members of the University Court, from and after their first election, of the Professors, of all Masters of Arts of the University, and of all persons on whom the University has, after Examination, conferred the Degree of Doctor of Medicine, or Doctor of Science, or Bachelor of Divinity, or Bachelor of Laws, or Bachelor of Medicine, or Bachelor of

Science, or any other Degree that may hereafter be instituted; and also of all persons who, previous to the 2nd August, 1861, had, as matriculated students, given regular attendance on the course of study in this University for four complete sessions, or such regular attendance for three complete sessions in this University, and regular attendance for one such complete session in any other Scottish University, the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

Members of the Council must be twenty-one years of age, and have their names enrolled in a book kept for the purpose by the Registrar. The Register of the Council is made up annually on the first day of December, for the year following, and includes the names of all members registered on or before

the 30th day of November in each year.

The Registration Fee, which is a payment for life, is 20s.

The Council meets twice every year—viz., on the Wednesday before the opening (26th October, 1881), and the Wednesday before the close of the winter session (26th April, 1882). It is competent to the Council to take into consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time, to the University Court, who shall return to the Council their deliverances thereon.

The Chancellor and one of the Assessors in the University Court are elected by the Council. The manner in which these officers are elected is regulated by Ordinance of the Universities Commissioners, No. 11, § ix. The President of the Council is the Chancellor; whom failing, the Rector; whom failing, the Principal; whom failing, the Senior Professor present.

The General Councils of the Universities of Glasgow and

Aberdeen jointly return a representative to Parliament.

Number of Members of the General Council, 3461. For names of Members, see Appendix.

# Members of Parliament for the Universities of Glasgow and Aberdeen.

1868. Right Hon. James Moncrieff, LL.D., Lord Advocate.

1869. Right Hon. Edward S. Gordon, LL.D., Dean of the Faculty of Advocates.

1876. Right Hon. WILLIAM WATSON, LL.D., Lord Advocate.

1880. James Alexander Campbell, LL.D.

#### RECTOR.

The Rector is elected by the matriculated students of the University, divided into four nations.\* In the case of an equality of nations the Chancellor has the casting vote. election takes place upon the 15th November (the 16th, if the 15th falls on Sunday); the term of office is three years. Rector is the official President of the University Court.

## Rectors from 1773.

- 1773. Charles Cathcart, Lord Cathcart.
- 1775. Lord Chief Baron Montgomerie. 1777. Andrew Stewart, Esq., of Torrance.
- 1779. Campbell B. Cochran, Earl of Dundonald.
- 1781. Right Hon. Henry Dundas.
- 1783. Right Hon. Edmund Burke.
- 1785. Robert Graham, Esq. of Gartmore.
- Adam Smith, LL.D. 1787.
- 1789. Walter Campbell, Esq. of Shawfield.
- 1791. Thomas Kennedy, Esq. of Dunure.
- 1793. William Mure, Esq. of Caldwell.
- William M'Dowall, Esq. of Garthland. 1795. George Oswald, Esq. of Auchincruive. 1797.
- 1799. Right Hon. Sir Ilay Campbell, Lord President.
- 1801. William Craig, a Lord of Session.
- 1803. Lord Chief Baron Dundas.
- Henry Glassford, Esq. of Dugalston. 1805.
- 1807. Archibald Colquhoun, Esq. of Killermont. 1809. Archibald Campbell, Esq. of Blythswood.
- 1811. Lord Archibald Hamilton.
- Thomas Graham, Lord Lynedoch. 1813.
- David Boyle, Lord Justice Clerk. 1815.
- 1817. George Boyle, Earl of Glasgow.
- 1819. Kirkman Finlay, Esq., M.P.
- Francis Jeffrey, Esq., Advocate. 1820.
- 1822. Sir James Mackintosh, M.P.
- 1824. Henry Brougham, Esq., M.P.
- Thomas Campbell, LL.D. 1826.
- \* The nations are constituted as follows :-
- 1. The Natio Glottiana consists of all matriculated students born within the County of Lanark
- 2. The Natio Transforthana consists of all matriculated students born within any of the Counties of Orkney and Shetland, Cathness, Sutherland, Ross, Inverness, Cromarty, Nairn, Moray, Banff, Aberdeen, Perth, Forfar, Kincardine, Clackmannan, Fife, Kinross, Argyle, Stirling, and Dumbarton.

  3. The Natio Rothseiana consists of all matriculated students born within any of the
- Counties of Bute, Renfrew, and Ayr.
- 4. The Natio Loudoniana consists of all matriculated students not included in any of the other nations.

Henry Petty, Marquis of Lansdowne. 1829. Henry Cockburn, Esq., Solicitor-General. 1831.

Lord Stanley, M.P. 1834.

Sir Robert Peel, Bart., M.P. 1836.

Sir J. G. R. Graham, Bart., M.P. 1838.

John Campbell, Marquis of Breadalbane. 1840.

Right Hon. Fox Maule, M.P. 1842. 1844. Andrew Rutherford, Esq.

Lord John Russell. 1846.

Colonel Mure of Caldwell. 1847.

Thomas Babington Macaulay, Esq. 1848.

Archibald Alison, Esq., Sheriff of Lanarkshire. 1850.

Earl of Eglinton. 1852. Duke of Argyle. 1854.

Sir Edward Bulwer Lytton. 1856.

Earl of Elgin. 1859.

Viscount Palmerston. 1862.

John Inglis, Lord Justice General. 1865. Lord Stanley (now Earl of Derby). 1868.

- Right Hon. Benjamin Disraeli, M.P. (Earl of 1871. Beaconsfield).
- Right Hon. William Ewart Gladstone, M.P. 1877.

1880. Right Hon. John Bright, M.P.

## UNIVERSITY COURT.

The University Court consists of the following members:-1. The Rector. 2. The Principal. 3. The Dean of Faculties.\* 4. An Assessor nominated by the Chancellor. 5. An Assessor nominated by the Rector. 6. An Assessor elected by the General

## \* Deans from the year 1800.

1800. James Couper, D.D.

1802. Archd. Campbell, Esq., of Succoth.

1804. Gavin Gibb, D.D. 1806. Duncan Macfarlan, D.D.

1808. Gavin Gibb, D.D.
1810. Duncan Macfarlan, D.D.
1812. Gavin Gibb, D.D.
1814. Stevenson Macgill, D.D.
1815. Archibald Campbell, Esq., M.P.
1817. Sir John Connel.

1819. Archibald Campbell, Esq., M.P.

1821. Sir John Connel.

1823. Archibald Campbell, Esq., M.P.

1825. Sir John Connel. 1827. Archibald Campbell, Esq., M.P. 1829. Sir John Connel.

1831. Archibald Campbell, Esq. 1833. Sir A. Campbell, Bart.

1835. Archibald Campbell, Esq.

1837. Sir A. Campbell, Bart. 1839. Kirkman Finlay, Esq.

1841. Lord Dunfermline. 1843. Sir T. Makdougall Brisbane, Bart. 1845. A. Maconochie, Lord Meadowbank.

1847. Earl of Eglinton.

1849. Colonel Mure of Caldwell, M.P. 1851. W. Lockhart, Esq., M.P.

1853. Colonel Mure. 1854. W. Lockhart, Esq. 1857. W. Stirling, Esq., of Keir, M.P. 1860. J. Moncrieff, Lord Advocate.

1863. Sir A. I. Campbell of Succoth. 1865. Henry Glassford Bell, Esq.

1868. Sir James Fergusson, Bart 1869. Sir Thos. E. Colebrooke, Bart., M.P. 1872. Archd. Orr Ewing, Esq., M.P. 1876. Alexander B. M'Grigor, LL.D. 1879. JAMES KING, ESQ.

Council of the University. 7. An Assessor elected by the Senatus Academicus.\*

The Dean of Faculties is elected annually by the Senate. The Rector's Assessor continues in office three years, and the other Assessors four years. The University Court has the following powers, viz. :-

1. To review all decisions of the Senatus Academicus, and to be a Court of Appeal from the Senatus in every case, except as otherwise provided for by the Universities (Scotland) Act. 1858.

2. To effect improvements in the internal arrangements of the University, after due communication with the Senatus Academicus, and with the sanction of the Chancellor, provided that all such proposed improvements shall be submitted to the University Council for their consideration.

3. To require due attention on the part of the Professors to regulations as to the mode of teaching and other duties imposed on the Professors.

4. To fix and regulate from time to time the fees in the several classes.

5. Upon sufficient cause shown, and after due investigation, to censure a Principal or Professor, or to suspend him from his office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to require him to retire from his office on a retiring allowance, or to deprive him of his office; and, during the suspension of any Professor, to make due provision for the teaching of his class; provided always that no such sentence of censure, suspension, or deprivation, or requisition on a Professor to retire from office, shall have any effect until it has been approved by Her Majesty in Council.

## \* Assessors since the University Court was constituted.

#### CHANCELLOR.

1859. John Robertson, D.D., Glasgow. 1865. A. Sim, D.D., New Kilpatrick. 1871. James Pearson, D.D., Strathblane. 1874. Robert Jamieson, D.D., Glasgow. 1878. J. A. CAMPBELL, LL.D., Stracathro.

#### COUNCIL.

1859. Andrew Bannatyne, LL.D.

1864. Lord Kinloch.

1867. ANDERSON KIRKWOOD, LL.D.

#### RECTOR.

1860. Thos. Buchanan, Esq. 1863. Walter Buchanan, Esq., M.P.

1866. Archibald Orr Ewing, Esq. 1869. James A. Campbell, LL.D.

1878. Alexander Crum, Esq. 1880. CHARLES CAMERON, M.D., LL.D., M.P.

#### SENATE.

15th Nov., 1859. Prof. W. Ramsay, M.A. 11th Dec., 1863. Prof. R. Buchanan, L.L.D. 12th Dec., 1867. Prof. Allen Thomson, M.D.

11th Jan., 1872. Prof. Sir W. Thomson. 13th Jan., 1876. Prof. Cowan, M.D. 29th Jan., 1880, PROF, BERRY, M.A.

6. To inquire into and control the administration by the Senatus Academicus, or Principal and Professors, of the revenue, expenditure and all the pecuniary concerns of the University, and of any College therein, including funds mortified for bur-

saries and other purposes.

The Court is also intrusted with the patronage of several of the Professorships, appoints the Assistant-Examiners for Degrees, and is a court of final appeal in any dispute which may arise in making up the Register of the General Council. Five Members of the Court constitute a quorum. The Rector is President—in his absence, the Principal.

An abstract of the minutes of the meetings of the University

Court during 1880-81 will be found in the Appendix.

### PRINCIPAL.

The office of Principal or Principal Regent of the College was almost coeval with the foundation of the University, and was regulated anew by James VI, in 1577. It is in the appointment of the Crown. The Principal is President of the Senatus Academicus; and is also, ex officio, a member of the University Court.

## Principals from the year 1574.

1574. Andrew Melville. 1684. James Fall. 1580. Thomas Smeaton. 1690. William Dunlop. 1582. Patrick Sharpe. 1701. John Stirling. 1728. Neil Campbell. 1615. Robert Boyd. 1622. John Cameron, D.D. 1761. Wm. Leechman, D.D. 1626. John Strang, D.D. 1786. Archd. Davidson, D.D. 1650. Robert Ramsay. 1803. William Taylor, D.D. 1823. Duncan M'Farlan, D.D. 1653. Patrick Gillespie. 1661. Robert Baillie, D.D. 1858. Thomas Barclay, D.D. 1662. Edward Wright. 1873. JOHN CAIRD, D.D.

### SENATUS ACADEMICUS.

The Senatus Academicus consists of the Principal and the whole of the Professors, and is entrusted with the ordinary superintendence and regulation of the teaching and discipline of the University, and administration of its property and revenues. The Principal, as President, has a deliberative and a casting vote. One-third of the Senate constitute a quorum.

### ASSISTANTS TO PROFESSORS.

By ordinance No. 22 of the Universities Commissioners, of date 25th November, 1861, it was provided that an Assistant should be attached to each of the Professorships of Humanity. Greek, Mathematics, and Natural Philosophy, and two (a Teaching Assistant and a Laboratory Assistant) to the Professorship of Chemistry, each of whom should receive a salary of £100, to be annually voted by Parliament. By the same ordinance provision was made for the appointment of an Assistant to the Professor of Anatomy, who should receive a salary from the General University Fund, and of a Joint-Assistant to the Professors of Materia Medica and Forensic Medicine, who should receive a salary of £50 by annual Parliamentary vote, instead of whom (by an alteration of the ordinance sanctioned by the Queen in Council) two assistants are now appointed, one to the Professor of Materia Medica, and the other to the Professor of Forensic Medicine, each of whom receives a salary of £25. These Assistants are all appointed by the Professors, subject to the approval and control of the University Court. Besides the Assistants for whom provision is made by ordinance, there are attached to several of the classes other Assistants, appointed and paid by the Professors.

The Arnott and Thomson Demonstratorship, founded in 1875, is attached to the Chair of Natural Philosophy, and the Muirhead Demonstratorship, founded in 1876, to the Chair of Institutes of Medicine.

There is also an Assistantship to the Professor of Engineering, which was founded in 1876 by the bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow, with a salary of £140 or thereby, and designated, in memory of her father, the Young Assistantship. The appointment is made by the University Court in conjunction with the Professor of Engineering.

### EXAMINERS FOR DEGREES.

By ordinance No. 14, § ix, of the Universities Commissioners of date 26th Jan., 1861, provision was made for the appointment by the University Court of three persons, not being Professors or Assistants to Professors, to be Examiners, along with

the Professors, for the Degree of M.A., one in the Department of Classical Literature, another in that of Mental Philosophy, and the third in that of Mathematical Science, each of whom should receive annually the sum of £80, to be voted by Parliament. By ordinance No. 15, § xvi, of date 16th March, 1861, provision was made for the annual appointment by the University Court of three Assistant Examiners for Degrees in Medicine on a similar footing. But in accordance with an amendment on this ordinance made in 1875, the University Court now appoint eight Examiners. And by ordinance No. 75, § vi, three additional Examiners are appointed for the examination of candidates for the Degrees of B.L. and LL.B.

### STUDENTS.

Number of matriculated students in the several Faculties, Session 1880.81:

In Arts, -	-	-	-		-	-	-	1406
Theology,	-	-	-	-	-	-	-	85
Medicine (	including	g Sun	nmer	Matr	ricula	tion	, 72),	563
Law, -	-	-	-	-	-	-		189
Arts and I	Medicine,	,	-	-	-	-	-	29
Arts and I	law,	-	-	-	-	-	_	18
Arts and T	Cheology,	-	-	-	•	-	-	14
	<b>.</b>							
							Total.	2304

By ordinance No. 3 of the Universities Commissioners, every student is required, at the beginning of each session, to matriculate by enrolling his name in the University Album, before joining any class. The office of the Clerk of Senate will be open for the purpose of matriculation on and after Monday, 17th October, daily, with the intervention of the holidays at the Sacrament. The Matriculation Fee is £1 for the Academical Year; for the Summer Session, 10s.

Students are entitled, after matriculation, to the privilege of admission to the University Library, and under certain conditions, to the Hunterian Museum; they are also entitled to vote for the Lord Rector. They may be classified as students in Arts, Theology, Law, and Medicine, according to the nature of their principal studies; and they are likewise, for academical purposes, divided into Togati and Non-Togati—the students of the Humanity, Greek, Logic, Ethics, and Natural Philosophy

classes being Togati or gown students, from being required to wear the ancient academical robe—a scarlet cloak.

Under the Non-Togati, or ungowned students, are comprehended all those who, having finished their course of instruction in Arts, are prosecuting their studies in the other Faculties, with a more immediate view to their intended professions; and it comprises also other persons resident in the city or its vicinity, who, though engaged in other avocations, are disposed to cultivate literary pursuits, or to extend their acquaintance with some favourite branches of learning or science, by attending the lectures given at the University.

A distinction is also made between Public and Private students. The former are required to undergo examinations, and to read or perform exercises on the subjects treated of in the lectures,—and they only are allowed to reckon their sessions of study as a qualification for proceeding to degrees in the

several Faculties.

Medical students have access, for the usual attendance in the wards and on the Clinical Lectures, to the Royal Infirmary situated in the Eastern part of the city, and to the Western Infirmary in the immediate vicinity of the University.

The following are the principal of the ancient disciplinary

Laws of the University:-

Leges de Studiis et Moribus Discipulorum in Universitate Glasguensi, sancitae a Rectore Magnifico cum Assessoribus ejus et Senatu Universitatis Glasguensis.

I. Academici omnes nomina sua in Album Academiae inscribunto.

II. Qui extra Collegii Pomoeria habitant apud Hospitem aeque ac in Collegio, pie, modeste atque comiter, se gerant: Qui secus fecerint, pro ratione delictorum puniuntor.

III. A studiis nulli feriantor nisi horis quibus feriandi copia

concedi solet.

IV. Bursarii, quos vocamus, assiduam Professoribus operam navanto. Qui decreto huic aequissimo minus obtemperaverint parte mulctentur stipendii pro portione temporis quo non dederint operam docentibus Professoribus. Quod si qui non adfuerint ante initium mensis Decembris, illi integro unius anni stipendio mulctantor.

V. Nulli intra moenia obstrepant vel stantes morentur præforibus.

LEGES. 33

VI. Qui fenestras vitreas fregerit, qui fabricæ Collegii vel horto quocunque modo damnum intulerit, severe punitor: et pro damno insuper pecuniariâ mulctâ satisfacito.

VII. Nemo ullis qui vitam agunt turpem aut ex quaestu inhonesto victitant, familiarius utitor: aut iis ullam secum con-

suetudinem intercedere patiatur.

VIII. Qui pervagationibus aut pervigilationibus noctem aut

noctis partem egisse deprehendatur, severe punitor.

IX. Qui nocturno aut diurno tempore in Collegio aut alibi quempiam percusserit vel contendendi ansam factis aut verbis contumeliosis volens suppeditaverit, ex Academiâ ejicitor.

X. Qui alterius nomen famoso libello violaverit, ignominiosus

ipse ex Academiâ ejicitor.

XI. Si quid obscœni, si quid turpe locutus deprehendatur

quispiam, severe punitor.

XII. Qui sanctissimum Dei nomen temere adhibere ausus fuerit, severissime mulctator: Qui sæpius ita deliquerit ex

Academiâ ejicitor.

XIII. Quum deceat Academiam pietatis seminarium esse, Academici ab omni vitio remotissimi sunto. Pietati studeant imprimis et morum probitati simul et elegantiæ. Quod si quis aliter se gerat, vel jussa neglexerit, vel contumax fuerit, eum pro ratione delicti mulctandum vel etiam ex Universitate et Collegio ejiciendum decretum est.

XIV. Quicunque prelectiones audiunt intra Collegii Pomoeria sive Laureâ insigniti, sive non, sive Togati, sive Non-Togati, sive in Album Academiae inscripti, sive non-inscripti, hisce legibus obstricti sunt et hisce judicabuntur. Potestas autem judicandi quæ Senatui Universitatis competit similis est potestati parentali; et propterea qui se male gerunt non in jus vocabuntur libello accusatorio, nec permissum erit causam suam jurisconsultis vel causidicis mandare, nec unquam, vel rarissime quidem, ad jusjurandum aliquem adigere.

### UNIVERSITY CHAPEL.

The University Chapel is under the management of a Com-

mittee of Senate, of which the Principal is convener.

Public Worship is celebrated every Sunday afternoon during the Winter Session at half-past Two o'Clock, in the lower Hall of the Hunterian Museum. The services are conducted by graduates of this University and other clergymen of various denominations.

#### UNIVERSITY CHOIP.

## Organist and Director, Mr. Montague Smith.

## Students' Committee.

James Crawford (Law); Donald M. Marr, M.A. (Law); R. W. Wallace (Divinity); John Ross (Divinity); Wm. F. Somerville, M.A. (Medicine); William Stafford (Medicine); W. F. Quaife, B.A. (Medicine); Robert R. Young, Convener.

The Choir practises the music for the Chapel service, but some attention is also paid to the cultivation of classical choral music. It is wholly composed of male voices, the treble and alto parts being supplied by boys, the tenor and bass by students. The membership is open to all students who have an elementary knowledge of music. Meetings for practice have hitherto been held each Saturday during the Winter Session at 6.45 p.m., but should another day or hour prove more convenient to the majority of students, a change may be made at the beginning of the session. The Committee will be glad to furnish any other information, and to receive the names of those who intend joining.

#### GYMNASIUM.

This building was erected by public subscription, and fitted according to the most approved models, under the superintendence of Mr. Maclaren of Oxford, at a total cost of £2,500, and was opened for the first time in January, 1872.

The Instructor, Mr. Benson, carries out the system of Mr. Maclaren in its entirety. Students are carefully examined and measured on joining, and the exercises graduated according to strength and proficiency. Each student joins a class which meets at the same hour three days in the week.

Gentlemen not connected with the University are admitted to the use of the Gymnasium, and special evening classes are formed for their benefit.

The rates at present are—For Students: One month, 5s.; Two months, 8s. 6d.; Three months, 12s.; the whole Session, 20s. For Non-Students: the Quarter (i.e., twice a week for 3 months, or three times a week for 2 months), 15s.

Mr. Maclaren presents annually the Oxford Silver Medal, for

competition among the students. Successful competitor at the competition in April, 1881—W. G. Campbell.

The Gymnasium is managed by a joint-Committee of Professors

and students.

Secretary and Treasurer, Alex. Sloan, C.A., 140 Hope Street, Glasgow.

### EXAMINATION FOR CANDIDATES FOR THE ARMY.

This Examination, which the Secretary of State for War has accepted as equivalent to the Examination at the English and Irish Universities for similar candidates, consists of three out of the seven Examinations required for the ordinary degree of M.A., but one subject must be taken out of each of the three separate Departments of Classical Literature, Mental Philosophy, and Mathematics. Candidates must not be over twenty-one years of age. Examination Fee, £2, 2s. This Examination is intended only for students who have actually attended classes in the University.

## II.—SEPARATE FACULTIES AND CLASSES.

## WINTER SESSION, 1881-82.

The Session will be opened on Tuesday, November 1, at Twelve o'Clock.\* An address will be delivered by the Principal on Saturday, 5th November, at 12 noon, in the lower Hall of the Museum.

The University Classes will meet as follows, daily, unless otherwise

specified :-

## I.—ARTS.

## WEDNESDAY, 2ND NOVEMBER.

Classes.	· Hours,	Class Fees.	Professors.
Humanity, Junior,	8 a.m. and 11 a.m., 9 a.m. and 1 p.m.,	.£3 3 0 )	
Senior,	9 a.m. and 1 p.m.,	. 3 3 0+ \ M	R. RAMSAY.
Private.	. 1 n.m.,	. 1 11 6 1	
Greek, Junior, Tirones,  ———————————————————————————————————	12 noon,	. 3 3 0 )	
Provectiones,	10 a.m.,	. 3 3 0 (M	n Tenn
			R. JEBB.
Private,	2 p.m.,	. 1 11 6	

<sup>\*</sup> In the Classes in the Faculties of Law and Medicine the Session will be opened on Tucsday. 25th October. (See p. 37.)

<sup>†</sup> The fee for a Third Session of Latin or Greek is £1 1s.

Classes.	Hours.	Class Fe	es. Professors.
Logic and Rhetoric, .  ————Higher Course,	. \begin{cases} 9 a.m. daily and 1 \\ a.m. Mon., Wed. \\ and Fri., \\ Tues. and Th., 1 p.m., \end{cases}	1 , £3 3 . 1 11	$\begin{pmatrix} 0 \\ 6 \end{pmatrix}$ Mr. Veitch.
Moral Philosophy, .  ——Higher Course,	8 a.m. daily, and 1 a.m. Mon., (see p. 46), See p. 46,	1 . 3 3	0 MR. CAIRD.
Natural Philosophy, .  ———————————————————————————————————		1 . 4 4	0* SIR WM. THOMSON.
Physical Laboratory, .  Mathematics, Junior, .  — Middle, . — Senior, . — Higher Senio	12 noon, or 9 a.m. o 10 a.m., . 12 noon or 9 a.m.,	r . 3 3 . 3 3	0 \ 0 \ DR. JACK.
Astronomy,	. $3$ p.m. Tu. and Fri.,	. 1 1	0 Dr. Grant.
Civil Engineering and M. chanics, Junior, ——Senior, Office and Field Work a Engineering, Junior, ——Senior,	. and Fri., . 4 p.m. daily, . 1 till 3 p.m., Mon Wed., . 1 till 3 p.m., Tu., Th.	. 3 3 . 3 3 . 3 3 ., 3 3	0 Dr. Jas. Thomson.
English Language and Li	t- Senior, 4.30 to 5.3 p.m. daily, (Nov.)	. 3 3 0 . 3 3	0 0‡ MR. NICHOL.

## II.—THEOLOGY.

## Monday, 7th November.

Classes.		Hours		Class	$s F \epsilon$	es.	Professors.
Divinity, Junior, ———— Senior,	:	;} 12 noor	1, .	. £3	3	0 D	R. Dickson.
Hebrew, Junior, . ————————————————————————————————————		. 10 a.m. . 9 a.m. . 1 p.m.	, . , .	. 3 . 3 . 1	3 3 1	$\begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} $ Di	R. Robertson.
Ecclesiastical History	,	. 11 a.m.	, .	. 3	3	0 Di	R. LEE.
Biblical Criticism,		. 10 a.m.	, .	. 3	3	0 Di	R. STEWART.

<sup>\*</sup> Fee for a Second Session, £3 3s.

<sup>†</sup> Free to those who have attended the Senior and qualifying course of Mathematics for the degree of M.A.

<sup>‡ £2 2</sup>s. to students who have attended the Junior Class.

<sup>§</sup> Enrolment free for a third Session in the Hebrew Classes.

## III.-LAW.

## Tuesday, 25th October.

Classes.		Hours.		Clas	$ss F \epsilon$	es.	Professors.
Scottish Law, Civil Law. (See p. 62),		8 a.m., .	•	. £4	4	0* }	MR. BERRY.
Conveyancing,							
Forensic Medicine—in Sof Medicine),							
Public Law,							
Constitutional Law and	l His	tory (in Sum	mer,188	2), 3	3	0	Mr. A. Ure.

## Note .- The Classes in the Faculty of Law will close on the 5th of April.

## IV.—MEDICINE.

## Tuesday, 25th October,

		001022	
Classes.	Hours.	Class Fees.	Professors.
Natural History, $\{Z_{00}logy, G_{00}logy, G_{00}\}$	9 a.m. (Oct.), 5 p.m. (Nov.),	$\begin{array}{ccc} . & £3 & 3 & 0* \\ . & 3 & 3 & 0* \end{array}$ DR	. Young.
Clinical Medicine,§	9 a.m.,	. (see p. 39) DR	M'CALL ANDERSON.
Clinical Surgery,§	9 a.m.,	. (see p. 39) DR	GEORGE BUCHANAN.
	10 a.m.,		
Junior Anatomy,	2 p.m., 11 a.m., 9 a.m. to 4 p.m.,	$ \begin{array}{ccc}  & 3 & 3 & 0^* \\  & 3 & 3 & 0^* \\  & 3 & 3 & 0 \end{array} \right\} D_R $	CLELAND and emonstrators.
Practice of Physic,	11 a.m., .	. 3 3 <b>0*</b> DR	GAIRDNER.
Materia Medica,	12 noon, .	. 3 3 0† DR	. Charteris.
Botany (in Summer),		. 3 3 0* DR	. Balfour.
Institutes of Medicine, Physiological Laboratory,	. 12 noon,	. 3 3 0* } DR.	M'KENDRICK and irhead Demonstrator.
Surgery,	1 p.m., .	. 3 3 0* DR	MACLEOD.
Forensic Medicine (in Sumn	ner),	, 3 3 0* DR	. P. A. SIMPSON.
Midwifery,	4 p.m.,	. 3 3 0* DR	. Leishman.
Pathology,	3 p.m.,	. —	
Lectures on the Eye (in Su	mmer),	. 110° Dr.	T. Reid.

<sup>\*</sup> Fee for a Second Session, £2 2s.; for a Third Session, £1 1s.
† Fee for a Second Session, £2 2s.
‡ Fee for a Second Session, £1 11s. 6d.
§ Besides the Lectures of the Professors who are entitled to teach clinically, the Lectures of the other Physicians and Surgeons of the Western and Royal Infirmaries recognized by the University Court, are accepted for Graduation.

## SUMMER SESSION, 1882.

During the Summer Session which opens on Thursday, May 4. the following courses will be delivered:

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Classes.
                                  Hours.
                                             Class Fees.
                                                               Professors.
                            8 a.m., . . . £3 3† 9 a.m. to 4 p.m., . 2 2 DR. BAYLEY BALFOUR. In Botanic Garden, —
Botany (College),*
Botanical Laboratory,
Botanical Demonstrations, .
                            9 a.m., .
                                            (see p. 39) Dr. M'CALL ANDERSON.
Clinical Medicine. ±
Clinical Surgery.
                            9 a.m., . .
                                             (see p. 39) Dr. George Buchanan.
Practical Chemistry, 9 to 11 a.m. (Tu., Wed., Th.), 3 3
                          . 10 a.m. to 4 p.m., . 5 5 MR. FERGUSON.
Chemical Laboratory, .
Organic Chemistry.
                                                    2 J Dr. CLELAND and
Anatomical Lectures, .
                         . 11 a.m., .
                         Practical Anatomy, .
                                                       L Demonstrators.
Forensic Medicine.
                          . 11 a.m., . .
                                                    3† Dr. Simpson.
Zoological Laboratory.
                          . 12 noon to 4 p.m., .
                                                    2
                                                        Dr. Young.
Practical Materia Medica, . 12 noon, . . .
                                                 3
                                                    3 || Dr. Charteris.
                                                   3|| Dr. M'KENDRICK and Muirhead Demonstrator.
                        . 12 noon, . . .
Practical Physiology, .
Physiological Laboratory, . 9 a.m. to 4 p.m., .
Practice of Physic.
                         . 1 p.m., Tu. and Th.,
                                                        Dr. Gairdner.
                         1 p.m. Mon. Wed. Fri., 2 2
                                                        DR. MACLEOD.
Operative Surgery, . .
 Lectures on the Euc. .
                         . 2 p.m., Tu. and Th., 1
                                                        Dr. T. Reid.
                                                   1
 Constitutional Law & History, 5 p.m. 5 days weekly, 3
                                                    3
                                                        Mr. A. Ure.
                         . 2 p.m., Wed., . 2
                                                   2
                                                        Dr. Yellowlees.
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WESTERN INFIRMARY.—This hospital contains 350 beds for medical and surgical patients, including wards for skin diseases, and one for diseases peculiar to females. *Physicians*—W. T. Gairdner, M.D.; T. M'Call Anderson, M.D.; James Finlayson, M.D. *Diseases of* Women-W. Leishman, M.D. Surgeons-George H. B. Macleod, M.D.; George Buchanan, M.D.; A. Patterson, M.D. Dispensary Physicians—Gavin P. Tennent, M.D.; Joseph Coats, M.D.; D. C. M'Vail, M.B. Dispensary Physician for Diseases of Women-W. L. Reid, M.D. Dispensary Surgeon for Diseases of the Ear, Thomas Barr, M.D. Extra Dispensary Physician—S. Gemmell, M.D. Dispensary Surgeons-James G. Lyon, M.D.; D. N. Knox, M.B.; James Christie, M.D. Extra Dispensary Surgeon-J. C. Renton, M.B. Dental Surgeon—James R. Brownlie, L.D.S., R.C.S., Eng. Patho-

<sup>\*</sup> By resolution of Senate, only those courses of Botany which are delivered during the Summer Session are recognised as qualifying for Graduation at this University; and the Winter Course of Lectures on Botany is now discontinued.

† Fee for a Second Session, £2 2s.; for a Third Session, £1 1s.

<sup>!</sup> See § at foot of page 37.

<sup>||</sup> Fee for a second course, £2 2s.

s Open to all Matriculated Students of the University who have completed their second winter of study.

logist—Joseph Coats, M.D. Medical Superintendent—John Alexander, M.D. Lady Superintendent—Miss E. Clyde. The hour of visit is 9 a.m. Operating Days—Wednesday and Saturday. Clinical Lectures are given on Tuesdays, Thursdays, and Fridays. The Dispensary for Out-Patients is open daily at 2 p.m. Vaccination—Mondays at 1 p.m. The station is recognized by the Local Government Board. Fee, £1 1s. According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

1. That every student paying at the commencement of his first year a Fee of £10 10s., will be entitled to admission to the Infirmary, and also to attend Three Courses of Clinical

Instruction during the said year.

2. That every student who has thus paid £10 10s., and shall at the commencement of his Second Year pay a further Fee of £10 10s., will have the privilege of admission to the Infirmary, and to the several courses of Clinical Instruction during his lifetime.

3. That the Fee for Hospital Attendance and Clinical Instruction for Six Months only be £7.7s.

4. That the Fee for Hospital Attendance and Clinical Instruc-

tion for Three Months only be £4 4s.

5. Any student who shall have paid Fees to the amount of £21, or upwards, in the payments as stated above, shall be entitled to a Ticket admitting him to the Infirmary, and to

the Clinical Instruction during his lifetime.

6. That each Course of Clinical Instruction shall extend over a period of three months, and that Three such Courses shall be given during each year. The first Course in November, December, and January;—the Second, in February, March, and April;—and the Third, in May, June, and July.

7. No student shall be allowed to attend the same Clinical

Teacher for more than Two Courses consecutively.

In connection with the Western Infirmary, there is also an out-door obstetrical department. Consulting Physician-Accoucheur—Professor Leishman, M.D. Physicians-Accoucheurs—W. L. Reid, M.D., R. Kirk, M.D., and M. Cameron, M.D. By attending six cases, and paying a Fee of £1 1s., students may obtain a certificate of attendance on Practical Midwifery, qualifying them for graduation.

Students who have taken the Hospital Ticket previous to 1st October, 1876, will continue at the scale of Fees then in use, but

a single payment of £10 10s., will make them perpetual students of the Hospital, and admit also to the Clinical Classes under the above rules.

Students who have a perpetual Ticket for any other hospital will be allowed to attend the Western Infirmary for the following fees: for a year, £3 3s.; for six months, £2 2s.

ROYAL INFIRMARY.—Hour of visit, 9 A.M. Clinical Lectures given by the Physicians and Surgeons. Fees for Hospital attendance and Clinical Instruction—same as in the Western Infirmary.

Eye Infirmary, 170 Berkeley Street.—Hour of visit, 1 p.m. daily. Fee for six months, £2 2s.; to those attending, or who have attended, the Lectures on the Eye, delivered in the University, £1 1s.

There are also Dispensaries for Diseases of the Skin and Ear, and the Royal Lunatic Asylum, Gartnavel, has been thrown open to Students of Medicine on payment of a small fee.

## FACULTIES IN THE UNIVERSITY.

The whole classes of the University are divided into four Faculties—Arts; Divinity; Law; Medicine.

## I.—FACULTY OF ARTS.

The Faculty of Arts embraces the classes of Humanity, Greek, Logic and Rhetoric, Moral Philosophy, Natural Philosophy, Mathematics, and English Language and Literature, on all of which attendance is required for a Degree in Arts, and also the classes of Practical Astronomy, and Civil Engineering and Mechanics.

## HUMANITY.

The original foundation of this Professorship is not extant; but it appears from the records of the College that it must have been instituted previous to the year 1637. The Professor is elected by the University Court.

## Professors from the year 1706.

1773. Wm. Richardson, M.A. 1706. Andrew Rosse. 1735. George Rosse. 1815. Josiah Walker, M.A. 1754. George Muirhead. 1831. William Ramsay, M.A.

1863. GEORGE G. RAMSAY, LL.D.

The Humanity Class consists of three divisions,—Junior, Senior, Private.

In the two former, the students prepare certain tasks prescribed, and are examined orally every day. In the Private Class the business is conducted principally by Lectures and Prelections delivered by the Professor.

### Junior Class.

The Junior Class meets from 8 to 9, and from 11 to 12 A.M. during five days of the week. Students in offices, or otherwise engaged, may attend at one hour only (either at 8 A.M. or 11 A.M.) with the sanction of the Professor, and will obtain certificates of attendance qualifying for the M.A. Degree. The subjects of study are: Extracts from the Elegiac Poets—a Book of Virgil -a Speech of Cicero, or a Book of Livy-Latin Prose Composition—Grammar—Prosody—Roman History and Antiquities. The students are examined on paper at intervals during the session.

Students entering the Junior Class are expected to have a good knowledge of Latin Grammar, and to be able to translate at sight simple passages from Latin into English, and simple sentences

from English into Latin.

Early in the month of November, a written examination of the whole class on these subjects will be held, including a short passage for translation from some easy author. A specimen of the examination papers is printed towards the end of the Calendar

## Senior Class.

The Senior Class meets from 9 to 10 A.M., and from 1 to 2 P.M. during five days of the week. Students engaged in teaching or in offices, or presenting any other valid ground of exemption, are not required to attend at 1 P.M. In the same manner, students unable to attend at 9 A.M. may attend the class at 1 P.M. only (which will rank as a Public Class), and will receive a ticket of attendance qualifying for the degree of M.A., provided that they acquit themselves sufficiently well in the examinations, and perform the written exercises prescribed in the class. Such students are also subject to oral examination throughout the session. The subjects of study in the class at 9 A.M. are: The works of Horace—Cicero—Livy—Tacitus—Latin Prosody—Roman History and Antiquities. The students are examined on paper at intervals during the session.

At the commencement of the session, there is a written examination for the whole class in certain subjects prepared during

the summer vacation.

### Private Class.

Students desiring to attend the 1 P.M. Class as Private Students may attend daily at that hour; or on Mondays, Wednesdays, and Fridays only, on which days a separate subject is lectured upon. The students are examined on paper at intervals during the session, both in the subjects read in the class and on voluntary subjects specially prescribed. A course of five sessions embraces Lectures and Prelections for Plautus—Lucretius—Catullus—Virgil—Persius—Juvenal—Martial—Tacitus.

In all the classes, written exercises in Latin Prose are prescribed regularly, and in the Private Class exercises in Latin or

English Verse may be prescribed also.

The Fee for a Public Class is	£3	3	0
The Fee for attending the Private Class daily,	1	11	6
For attendance on Mondays, Wednesdays, and Fridays only,	1	1	0
For Students who return for a Third Session,	1	1	0

N.B.—Two Sessions of the Junior Class of Humanity do not constitute two Sessions of Humanity for the purpose of graduation in Arts.

### GREEK.

This Professorship was founded by the College in or about the year 1581. The Professor is elected by the University Court.

Professors from the year 1704.

1704. A. Dunlop, LL.D.

1746. James Moor, L.L.D. | 1821. Sir Daniel K. Sandford, M.A. 1774. John Young, M.A. | 1838. Edmund L. Lushington, L.L.D. 1875. RICHARD C. JEBB, LL.D.

GREEK. 43

The Greek Class consists of three divisions, the Senior, the Middle, and the Junior. Students not requiring a public Certificate may attend as Private Students at the second daily hour of the Senior Class. A public Certificate for attendance at that hour can also be obtained on the conditions stated below.

### SENIOR GREEK CLASS.

The Senior Greek Class meets at 8 A.M. and 2 P.M. on every

week-day except Saturday.

At 8 A.M. the Class reads Homer, Herodotus, and Thucydides, or such other authors as may be appointed for the session. The class is daily examined orally in a prescribed portion of the book which is being read.

Examinations by means of printed papers are held in all the

subjects studied during the session.

At 2 P.M. the Professor lectures on Greek authors of a more difficult character, such as the dramatic poets and the philosophers.

The Class is examined on paper in the subjects of the prelec-

tions thus delivered during the session.

Exercises in Composition form a part of the class-work at 2 P.M.

Students who, for a reason deemed valid by the Professor, desire to be exempted from attendance at 8 A.M., can obtain a Certificate qualifying them for the degree of M.A., by attendance at 2 P.M. only, on condition of their being liable to occasional oral examination, and passing the written examinations.

## MIDDLE GREEK CLASS ('PROVECTIORES.')

The Middle Greek Class meets at 10 A.M. on every week-day

except Saturday.

The authors usually read are Xenophon, Herodotus, and Homer. Written Exercises in Elementary Greek Composition are performed every week during the greater part of the session.

In the course of the academical year a thesis is proposed for an English Essay on some important subject connected with the History or Literature of Greece,

The Class is examined on paper in the work done during the

session.

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## JUNIOR GREEK CLASS ('TIRONES.')

The Junior Greek Class meets at 12 noon, on every week-day

except Saturday.

The earlier part of the session is devoted to the study of the Grammar. The text-book used by the Class is the Greek Grammar of Dr. George Curtius, in the larger edition of the English translation.

It is desirable that Students intending to join the Junior Greek Class should study beforehand at least Chapters i. to xi. of this Grammar.

An Examination on Greek Grammar is held early in February. The Class then proceeds to read extracts from Greek authors, and to perform exercises. Before the close of the session the Class is examined on paper in the whole of the class-work.

Fee for any Public Class, - - - - £3 3 0 For attending as a Private Student at 2 P.M., 1 11 6 For a Third Session in any Class, - - 1 1 0

Subjects for Session 1881-82.—Senior Greek Class. At 8 a.m.: Attic Orators, Selections, beginning at page 65 (edition with Notes, by Prof. Jebb: Macmillan & Co.); Herodotus, book vi.;\* Homer, Odyssey, book xii.\* At 2 p.m.: 1. A course of Lectures on Greek Literature; 2. Sophocles, Antigone\*; 3. Exercises, with printed papers, on Greek Composition; 4. Modern Greek, (Vincent & Dickson's Handbook recommended: Macmillan & Co.).—Middle Greek Class. Xenophon, Anabasis, book iii. The text used in the class is that published by Mr. MacLehose, with a Modern Greek version. Herodotus, book i. Homer, Iliad, book xvi.

N.B.—Two Sessions of the Junior Greek Class do not constitute two sessions of Greek for the purpose of graduation in Arts.

## LOGIC AND RHETORIC.

This Professorship is one of those founded by the charter of *Nova Erectio*, in 1577. The Professor is elected by the University Court.

## Professors from the year 1727.

1727. John Loudon.

1751. Adam Smith, LL.D. | 1787. George Jardine, M.A. 1752. James Clow. | 1827. Robert Buchanan, LL.D.

1864. John Veitch, LL.D.

This Class meets daily on five days of the week, from 9 to 10 a.m., for Lecture, and on Mondays, Wednesdays, and Fridays, from 11 to 12 noon, for Oral Examination and the Reading of Exercises and Essays.

The Course of Lectures is so arranged as to embrace the fol-

lowing subjects in each session :--

I. PSYCHOLOGY AND METAPHYSICS—under which is given an account of the Faculties and Capacities of the Mind, and of the General Nature, Limits, and Objects of Human Knowledge.

II. Logic.—(A) Pure or Formal Logic, embracing the Doctrine of Notions (Terms), Propositions, Reasonings, Fallacies. (B) Applied or Material Logic, embracing the Theory and Processes of Science (Observation, Induction, Deduction), and the General Laws of Evidence. Instruction in Logic is conveyed partly by means of a text-book.

III. RHETORIC.—A portion of the course is devoted to the

Principles of Rhetorical and Oratorical Excellence.

Exercises and essays on subjects connected with the course are prescribed to the students; and General Written Examinations take place at regular intervals during the currency of the session.

The Class is annually arranged into two divisions, Senior and Junior, according to the age of the students; and prizes, adjudged by the votes of their class-fellows, are assigned, in each of the divisions, to those who have most distinguished themselves by diligence, proficiency, and ability in the exercises and examinations of the session.

The Fee for the Ordinary Course is £3, 3s.

An advanced class for the Higher Metaphysics,—embracing the subjects prescribed for honours in Mental Philosophy, meets twice a week, on Tuesdays and Thursdays, from 1 to 2 P.M.

Fee for the Advanced Course, - - £1 11 6

N.B.—To qualify for the Arts Degree, the Logic Class and the Moral Philosophy Class must be attended in separate sessions, the Logic Class being taken first.

### MORAL PHILOSOPHY.

This Professorship also was founded by the charter of *Nova Erectio*, in 1577. The Professor is elected by the University Court.

## Professors from the year 1727.

1726. Gerschom Carmichael.	1764. Thomas Reid, D.D.
1730. F. Hutcheson, LL.D.	1780. Archd. Arthur, M.A.
1746. Thomas Craigie.	1797. James Mylne, M.A.
1752. Adam Smith, LL.D.	1839. William Fleming, D.D.

## 1865. EDWARD CAIRD, LL.D.

The Moral Philosophy Class meets at 8 a.m. on five days of the week for Lecture, and at 11 a.m. on Mondays and at 8 a.m. on Saturdays for examination. Public students must attend at the hours of Lecture, and either on Saturday at 8 a.m. or on Monday at 11 a.m. for examination. In the Lectures Moral Philosophy is treated both historically and systematically.

The historical part of the course includes some general lectures on the relation of Philosophy and History, and an account of the most important Ethical and Social theories, ancient and modern. The systematic part of the course includes lectures on Psychology as the basis of morals, on the principles of Jurisprudence and Social Ethics, and on the relations of Philosophy to Theology.

In alternate years courses of lectures are delivered upon Political Economy, and upon some of the subjects of the examination for the Degree with honours. During next session Mr. Caird will lecture on the Philosophies of Kant and Hegel at hours to be afterwards announced.

Fee for the Moral Phile	osophy C	lass,	-	-	£3	3	0
Political Economy Clas		- 1	-	_	1	11	6

N.B.—To qualify for the Arts Degree, the Logic Class and the Moral Philosophy Class must be attended in separate sessions, the Logic Class being taken first.

### NATURAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio* in 1577; and the Professor was confined to the department of Natural Philosophy in 1727. The Professor is elected by the University Court.

## Professors from the year 1727.

### 1727. Robert Dick.

1751. Robert Dick, M.D. | 1796. James Brown, LL.D. | 1757. John Anderson, M.A. | 1803. W. Meikleham, LL.D.

1846. SIR WILLIAM THOMSON, LL.D., D.C.L., F.R.S.

The Natural Philosophy Class meets daily at 9 A.M., and at 11 A.M. or 12 noon.

The first hour is chiefly spent in statements of Principles, description of Results of Observation, and Experimental Illustra-The second hour is devoted to Mathematical Demonstrations and Exercises, and Examinations on the Elementary parts of the course, on Tuesdays and Thursdays, at 11 A.M.; and to a higher Mathematical Course on Mondays, Wednesdays, and Fridays, at 12 o'clock.

The Text-books used are-

"A Treatise on Natural Philosophy," by Professors Sir William Thomson and P. G. Tait (Cambridge University Press); "Elements of Natural Philosophy," by the same authors (Cambridge University Press); a "Lecture on Navigation," by Professor Sir William Thomson (W. Collins & Sons); "Dynamics," by J. T. Bottomley (W. Collins & Son); "Hydrostatics," by J. T. Bottomley (W. Collins & Sons); "Heat," and "Elasticity," by Sir W. Thomson, reprinted from the Encyclopædia Britannica (A. & C. Black); Ganot, "Experimental Physics," translated by Atkinson (Longmans & Co.); "Mathematical Tables," J. T. Bottomley (W. Collins & Sons).

The more elementary of the Treatises by Thomson & Tait, along with Dynamics and Hydrostatics by Bottomley, will be used for the work required of all students of Natural Philosophy in the regular curriculum. The whole, or certain specified parts of the larger treatise will be prescribed in connection with voluntary examinations and exercises in the class, and for candidates for the degree of M.A. with honours. Students who desire to undertake these higher parts of the business of the class ought to be well prepared on all the subjects of the Senior

Mathematical Class.

The Laboratory in connection with the class is open daily from 10 A.M. to 4 P.M. for Experimental Exercises and Investigations, under the direction of the Professor and his official Assistant, and the Demonstrator in Experimental Physics.

The main divisions of the course are—

(1.) Abstract Dynamics (including Elements of Physical Astronomy); (2.) Properties of Matter; (3.) Thermodynamics; (4.) Illustration.

Illustration is conducted partly through examples and calcu-

lations; partly by experiment.

A programme of the subjects that will be taken up, as far as

time permits during the Session 1881-82, will be published before the commencement of the Session, and may be had on application at the Natural Philosophy Class-room.

Fee for the	Natural Philosophy Class, -	-	£4	4	0	
,,	Students of the Second Year,	-	3	3	0	
"	Physical Laboratory,	-	5	5	0	

N.B.—For a Degree in Arts attendance on the qualifying course of Natural Philosophy must be subsequent to the completion of the qualifying course of Mathematics.

## THE ARNOTT AND THOMPSON DEMONSTRATORSHIP IN EXPERIMENTAL PHYSICS.

This Demonstratorship was founded in 1875 by the liberality of Sir William Thomson and Mrs. Arnott, widow of Dr. Neil Arnott, founder of the Arnott Prizes, who invested respectively £2,000 and £1,000 for the purpose of encouraging the study of Experimental Physics in the University of Glasgow. Demonstratorship is in connection with the Physical Laboratory of the University. The holder is appointed annually by the Professor of Natural Philosophy, subject to the approval of the University Court, and his duties are to perform, and direct in the performance of, experimental researches in the Physical Laboratory, in connection with, and under the direction of, the Professor of Natural Philosophy, to give practical laboratory courses suitable for Medical and Engineering students, and to take part in the teaching of the Natural Philosophy Class, if required by the Professor, and in such way and at such times as may be appointed by the Senatus Academicus of the University.

### Demonstrator.

1875. James Thomson Bottomley, M.A.

### MATHEMATICS.

This Professorship, long suppressed for want of funds, was revived by an Act of Faculty in 1691. The Professor is appointed by the University Court.

## Professors from the year 1691.

			10	91. G	feorge Sinc	lair.		
1699	Robert	Sincle	air.	M.D.	I 1796.	James	Millar.	M.A.

1711. Robert Simson, M.D. 1761. James Williamson, D.D. 1832. James Thomson, LL.D. 1849. Hugh Blackburn, M.A.

1879. WILLIAM JACK, LL.D.

### Junior Class.

Lower Division (or FIRST YEAR'S COURSE.) Subjects: Euclid and Algebra, both from the beginning. Three parallel sub-divisions of the class meet, daily (except on Saturdays), one

from 9 to 10, one from 10 to 11, one from 12 to 1.

Upper Division (or Second Year's Course), for students who have attended the first year's course, or who have otherwise acquired a knowledge of Euclid, Books I, II, III, IV. and of Algebra as represented by the first twenty-two Chapters (Chaps. XIV, XV, XIX, excepted) of Todhunter's larger Text-book. Subjects: Euclid, Books V, VI, and XI, Higher Algebra and Algebra applied to Geometry, Elements of Trigonometry. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, one from 12 to 1.

## Senior Class.

(Or THIRD YEAR'S COURSE). Subjects: Trigonometry, Analytical Plane Geometry, Differential and Integral Calculus. The Senior Class meets from 10 to 11 daily except on Saturdays.

Higher Senior Class.

Subjects: Geometry of three Dimensions, Differential Equations, Finite Differences. The Class meets at 11-12 on Mondays.

Wednesdays, and Fridays.

Attendance on the Mathematical Classes, for not less than two Winter Sessions, one of which must be on either the Upper Junior or the Senior Class, is required for the degree of M.A. "unless the candidate at the time of his entrance to the University, shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the Senior Class," in which case, attendance on the Senior Class for one session is sufficient.

The Fee for each session is -

The Fee for the Extra Senior Class is -

No fee is charged for the Extra Senior to students who have completed their qualifying course of attendance for M.A., and who have attended the Senior Class.

For the "Lorimer" and the "Muir" Bursaries in Mathematics, see under Bursaries.

N.B.—Attendance on the qualifying course of Natural Philosophy for the Degree of M.A. must be subsequent to the completion of the qualifying course of Mathematics. Two sessions of the lower Junior Class of Mathematics do not constitute two sessions of Mathematics for the purpose of graduation in Arts.

### PRACTICAL ASTRONOMY.

The Professorship of Practical Astronomy was founded in the year 1760, conjointly with the office of Observer in the University of Glasgow, and is in the gift of the Crown.

Professors from the year 1760.

1760. Alexander Wilson, LL.D.

1784. Patrick Wilson, LL.D. | 1803. James Couper, D.D.
 1799. W. Meikleham, LL.D. | 1836. John P. Nichol, LL.D.
 1859. ROBERT GRANT, LL.D., F.R.S.

An Observatory has always existed in connection with this Chair. The present Observatory is situated on an eminence in the immediate vicinity of the University buildings. The principal instruments are:—a Meridian Circle of three feet six inches diameter, by Ertel of Munich; and an equatorially-mounted Refractor, of nine inches aperture, and thirteen feet focal length, by Cooke of York. The acquisition of the latter instrument is mainly due to the liberality of a few private gentlemen chiefly residing in Glasgow.

Dr. Wilson, the second occupant of the Chair, bequeathed to the University the sum of one thousand pounds, upon the condition that the interest thereof should be applied to the purchase of instruments and books for the use of the Professor of Astron-

omy and the students attending his prelections.

The Professor of Practical Astronomy is chiefly occupied in directing the operations of the Observatory; but he also delivers a short Course of Lectures on Astronomy at the College during the session, and gives expositions on instruments and methods of observation at the Observatory. The Fee for the course is £1 1s.

## CIVIL ENGINEERING AND MECHANICS.

The Professorship of Civil Engineering and Mechanics was instituted by Queen Victoria in 1840, and is in the gift of the Crown. The emoluments of the Chair were increased in 1872, by a supplemental endowment\* by Mrs. Elder, widow of Mr. John Elder, Engineer and Shipbuilder, Glasgow; and more

<sup>\*</sup> The annual income of a sum of £5,000.

recently, in 1876, an Assistantship was founded by bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow.\*

## Professors.

1840. Lewis D. B. Gordon, C.E.

1855. William J. Macquorn Rankine, C.E., LL.D.

1873. James Thomson, C.E., LL.D., D.Sc., F.R.S.

The Courses of the Professor of Engineering comprise a junior and a senior course of Lectures and Examinations designated as "Civil Engineering and Mechanics;" and a junior and a senior practice course of instruction designated as "Office and Field Work in Engineering."

Each of these courses commences at the beginning of the winter session, and lasts during the whole of that session—that is, from the beginning of November till the end of April.

The Junior Class of Civil Engineering and Mechanics meets on Mondays, Wednesdays, and Fridays, from 11 till 12 noon. It is intended ordinarily to be taken by students in the second year of their Engineering curriculum. The Lectures include generally most of the following subjects:—Principles and Practical Methods of Surveying and Levelling, and the Principles and use of Theodolites and Levelling Instruments; Mensuration, especially in reference to Railway Earthworks; setting out Railway Curves, and Lines of Railway generally; Tunnelling; Specifications for Engineering Contracts; a brief introduction to Architecture as a Fine Art.

The Senior Class of Civil Engineering and Mechanics meets at 4 p.m. daily, Saturdays excepted. It is intended ordinarily to be taken by students in the third year of their Engineering curriculum. The subjects of study from which the courses of detailed teaching are proposed chiefly to be selected, with some variations in different sessions, may be stated briefly as follows:—Revision or further prosecution of some of the subjects proposed for the junior course; Elasticity and Strength of Materials; and Strength, Stability, and Stiffness of Structures; Bracing of Framed Structures: Energy, Mechanical Work, Horse Power; Frictions and allied subjects in applied Mechanics; Principles of Hydraulics; Gauging of Rivers and Streams;

<sup>\*</sup> The salary for the Young Assistantship thus founded is £140, or thereby.

Flow of Rivers; Elementary Principles of Thermodynamics; Steam Engines, common Water Wheels, and Turbines; Centrifugal Pumps for raising Water, and Fans; Principles and Mensuration for Shipbuilding; Roofs; Carpentry; Bridges and Viaducts; Works of Drainage and Water Supply; Ventilation and other Sanitary arrangements in Buildings; Ventilation,

Drainage and Management of Water in Mines.

The Junior Class of Office and Field Work meets on Mondays and Wednesdays, from 1 till 3 P.M. It is intended ordinarily to be taken by students in the first year of their Engineering curriculum. The Senior Class meets on Tuesdays and Thursdays, from 1 till 3 P.M., and is intended ordinarily to be taken in the second year of the curriculum. The students of both classes are expected to prosecute studies and perform practical work in the business of the classes, at times extra to those appointed for the regular meetings; and they are occasionally required to attend on Saturdays or other days, for some hours, for indoor or outdoor engagements. The course for these classes comprises generally the following subjects and proceedings, or most of them: the more easy and elementary portions being prosecuted in the junior class, and the more advanced in the senior class:—Lectures and Practical Lessons in Descriptive Geometry, Orthographic and Isometric Projection, and Perspective; Practice in Engineering and Architectural Drawing, and in Surveying, Levelling, Plotting, and Mensuration; Engineering Excursions.

Fee for each of the Engineering Classes, - £3 3 0

Certificate of Proficiency in Engineering Science.

Certificates of Proficiency in Engineering Science will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners.

Ordinary course for the Certificate of Proficiency in Engineering
Science.

FIRST YEAR-

Inorganic Chemistry, 5 days weekly, - - 10 A.M.

(Chemical Laboratory may be taken in this or any other year, Winter or Summer Session, if selected as part of the course. See below:—Third Year.)

Mathematics,* Lowe				
weekly,			9 A	.M. or 12 noon.
Junior Class of Office	and Field Wor	k in Engin	eer-	
ing, Mondays and	Wednesdays,		-	1 till 3 г.м.
Geology and Miner	alogy. Mondáy	. Wedneso	lav.	
and Friday, -			_	5 P.M.
SECOND YEAR-				0 1111
	15 days wook	lsr _		9 а.м.
Notural Philosophy	Alas massaman	ly, -	-	O Marie
Natural Philosophy,	Also recomin	ienaea,n p	rac-	11
				11 A.M.
Mathematics, Senior	or Upper J	unior, 5 d	lays	
weekly,		- 10 A.M	i. or 9 a	.m. or 12 noon.
Civil Engineering an	nd Mechanics,	Junior, M	[on-	
day, Wednesday, a	nd Friday, -		-	11 а.м.
Senior Class of Office				
and Thursday,			_	1 till 3 P.M.
THIRD YEAR-				
	(5 days wook	1,77		9 а.м.
Natural Philosophy,	and Tues or	d Thun	_	11 A.M.
				LL A.Bi.
Senior Mathematics,				7.0
5 days weekly,	T. T T			10 A.M.
Physical Laboratory,				
Laboratory, 5 days	weekly; or the	he Chemica	al Labo	bratory can be
attended in any ye	ar in summer	instead.		
Civil Engineering an			avs	
weekly,		,	_	4 P.M.
,				

## Modifications allowable in Special Cases.

Some moderate deviations from the above course will be arranged for in cases in which the circumstances, duly considered, are found to render such change desirable and suitable; for this purpose, application may be made beforehand to the Board of Examiners in Engineering Science, through the Professor of Engineering as Convener of the Board. Students who commenced, before the summer of 1877, their course of attendance, with the view to obtain the certificate, may complete their courses of attendance according to the arrangements in the Calendar of 1876-77.

### Examinations, &c.

The examinations for Certificates of proficiency in Engineering Science are carried on partly along with the examinations for

<sup>\*</sup>Students who, on entering the University, show themselves qualified to enter the Senior Mathematical Class, by passing the Mathematical part of the Preliminary Examination in Arts (see Preliminary Examinations in Arts) are not required to attend the Junior Class of Mathematics.

Degrees in Arts and Science, and partly along with the class examinations and written examinations for the Walker Prizes; and the examinations by the Professor of Engineering for decisions in April may be commenced on or after the 11th of March. Examinations in Civil Engineering and Mechanics and in Drawing will be held in November, if applied for to the Clerk of Senate on or before the 1st of October. No candidate is admitted to the special Examination for the Certificate, in any department, till he has attended the prescribed course of study in that department.

Candidates offering themselves for being tested as to their skill in Drawing, with a view to passing in April or in November, must have, in the January preceding, passed with the Professor of Engineering a preparatory test by examination, and by scrutiny of their Drawings, or otherwise as may be arranged in special cases. All Drawings intended to be submitted for proof of skill in drawing for the Certificate are required to be lodged with the Professor of Engineering on or before the 10th of

April, or the 2d of October in each year.

Attendance on the classes of Mathematics, Natural Philosophy, Chemistry, and Geology, in any Chartered University in the United Kingdom having the power of granting degrees, is admitted as part of the course for the above-mentioned certificate, provided the candidate passes a sufficient examination in each branch of Science by the proper authorities of this

University.

Candidates for Certificates of proficiency in Engineering Science, who are graduates in Arts of any Chartered University of the United Kingdom, are exempted from study and examination in Mathematics and Natural Philosophy; and if any such Graduate has obtained honours in Chemistry or in Geology, he is exempted from study and examination in the Science or Sciences in which he has obtained honours.

A Fee of One Guinea is paid by all students who receive the Certificate in Engineering Science.

Certificates of Attendance and of Merit in separate Classes.

Students who do not find it convenient to undertake or to carry out all the courses of attendance and all the examinations required for the Certificate of proficiency, or for the degree of B.Sc. in Engineering, may in many cases well rest satisfied by their attending such classes as they may deem most suitable to

their own objects. They have it open to them to obtain due testimony to their attainments and merits by the ordinary Class Certificates, and marks of special distinction. The primary object of entering on the whole, or on any part, of the Engineering courses ought to be to gain knowledge and skill—the gaining of particular forms of University certificates or testimonies to merit, though valuable when obtained, ought not to be the primary object.

Recommendation.—It is strongly recommended that students of Engineering should, if possible, get themselves engaged, for two or three summers within the period of their attendance in the University, in engineering or architectural service, in offices, or in workshops, or in works such as railways, water works, or

harbour works, in progress.

As to the Degree of B.Sc., in the Department of Engineering,

As to the Muir Bursaries, the Walker Prizes, and the George Harvey Prize, in the Class of Civil Engineering and Mechanics, see Index.

### ENGLISH LANGUAGE AND LITERATURE.

This Chair was founded by ordinance of the Universities Commissioners of date 25th November, 1861, and is in the gift of the Crown.

## Professor.

## 1862. John Nichol, LL.D.

The Classes meet from the beginning of the Session on five days of the week till the end of February. During the ensuing session it will consist of two divisions, Junior and Senior, attendance on either of which will qualify students to proceed to their degrees.

### JUNIOR CLASS.

This class will meet daily from 2 to 3 P.M. The course, adapted to less advanced or experienced students, will consist of a series of Lectures on English Composition, a review of a period of English Literature, and a detailed study of the text of some characteristic work of a well-known author.

### SENIOR CLASS.

The Senior Class will meet, as formerly, from 4.30 to 5.30 P.M.

The Course will comprise—

1. A series of Philological Lectures, tracing the origin and growth of the English Language from the Anglo-Saxon down to the present day, and illustrating its affinities with other tongues.

2. An exposition of the general principles of Taste, as applied

to Style.

3. A historical review of a period of English Literature (including our early Literature), with more minute criticism of some works of the more difficult authors.

Public students in both classes will be examined *viva voce*, and required to pass a written examination (without books) before the close of the session.

Written exercises and essays, which will be criticised by the Professor, are also required to be given in by all public students of either class.

Text-Books—Junior: Arnold's or Spalding's English Literature; Composition Primer, in Macmillan's series; Tables of History and Literature, by Professor Nichol. Senior: Arnold's or Shaw's English Literature; Marsh's English Language; Tables of History and Literature, by Professor Nichol; Campbell's Rhetoric, and Seeley & Abbott's English Lessons for English People are also recommended.

Class Fees—For either Class, £3, 3s. For second year's attendance, or senior students who have been in the Junior

Class, £2, 2s.

## II. -FACULTY OF THEOLOGY.

The Faculty of Theology embraces the four classes of Divinity, Oriental Languages, Ecclesiastical History, and Divinity and Biblical Criticism.

The following regulations are applicable to students preparing for the Ministry of the Church of Scotland. Under the Act of General Assembly, 1880, consolidating the Acts presently in force in regard to the study of Divinity, all candidates for the ministry are required to attend at the Divinity Hall either three full and regular sessions, or two full and regular sessions and three partial sessions; and to give at least two full sessions of regular attendance on the Classes of Church History, Hebrew, and Biblical Criticism.

Each student in order to be enrolled for the first year of his attendance, must present to the Professor of Divinity, first.

a certificate from the Presbytery within the bounds of which he usually resides, and by which he has been examined in his knowledge of the Holy Scriptures according to the authorised version, and of the catechetical standards of the Church; and, secondly, a certificate signed by the Convener or Vice-convener of one of the Four Examining Committees appointed, under the Act of Assembly, 1872, to conduct the examination of students previous to their entering the Divinity Hall.\* In order to be admitted to this examination he must produce, in addition to the certificate from the Presbytery recommending him, the diploma of a Master of Arts, or certificates from the several Professors under whom he has studied, that he has attended regularly all the classes prescribed by the Church for students who intend entering the Hall—viz., Latin, Greek, Logic, Mathematics, Moral Philosophy, and Natural Philosophy, in such order as is prescribed at the University in which he has studied, and to the extent required for proceeding to the degree of Master of Arts. If he produces evidence that he holds the degree of Master of Arts, or that he has passed all the examinations required for taking that degree, it is competent for the Examining Committee to exempt him from examination in those branches of Literature and Science, proficiency in which is denoted by such a Degree. The Examination also embraces the Elements of Hebrew Grammar.

The student, in order to his enrolment for each subsequent session of his course, is required to present to the Professor of Divinity a certificate from the Presbytery within whose bounds he chiefly resides, of his having been examined by them on the progress made by him in his studies, and of their satisfaction with the same, as well as a certificate of his good moral charac-

ter from the minister of his parish.

Each student is required during his curriculum to deliver six discourses—viz., an Exegesis in Latin on some controverted head in Divinity, a Homily in English, a Critical Exercise on some portion of the original text of the Old Testament, an Exercise and Addition on some portion of the original text of the New Testament, a Lecture on some portion of Scrip-

<sup>\*</sup>The Examining Committees meet at the respective University seats shortly before the commencement of each session, the times and places of meeting being duly amnually, along with the "Missionary Record" of the Church of Scotland, for July annually, along with the names of the Conveners and Vice-Conveners of the respective Committees. The programme of the books and subjects of examination for Session 1881-82 will be found in the "Missionary Record" for April 1881.

ture, and a POPULAR SERMON, with such other exercises as the Professors may think fit to prescribe. No student can be taken on trials for license by any Presbytery until he has produced along with Class Certificates from the Professors of Church History, Hebrew, and Biblical Criticism, a certificate from the Professor of Divinity that the discourses so prescribed have been sustained.

The Faculty of Theology have adopted the following regulations as to the delivery of these discourses:—(1) That the Latin Exegesis shall be given in to the Professor of Divinity, the Homily to the Professor of Church History, and the Lecture to the Professor of Biblical Criticism, not later than the 31st January in the second year of the student's course; and (2) that the Popular Sermon shall be given in to the Professor of Divinity, the Hebrew Critical Exercise to the Professor of Oriental Languages, and the Exercise and Addition to the Professor of Biblical Criticism, not later than the 31st January in the third or last session of the course. The subjects of the Discourses will be prescribed by the Professors to whom they are severally to be given in.

### DIVINITY.

This Professorship was founded in 1640, and the foundation ratified in Parliament. The Professor is appointed by the University Court.

## Professors.

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1640-50. David Dickson.	1740. Michael Potter.
1642-61. Robert Baillie.	1744. William Leechman, D.D.
1653. John Young.	1761. Robert Trail, D.D.
1669. Gilbert Burnet, D.D.	1775. James Baillie, D.D.
1674. David Liddell.	1778. William Wight, D.D.
1682. Alexander Ross, D.D.	1783. Robert Findlay, D.D.
1688. James Wemyss, D.D.	1814. Stevenson Macgill, D.D.
1692. James Wodrow.	1839. Alexander Hill, D.D.
1708. John Simson.	1862. John Caird, D.D.

## 1873. WILLIAM PURDIE DICKSON, D.D.

The Course of Theology extends over three sessions. The Lectures during next session will treat partly of Biblical Theology, partly of the History of Doctrine. A portion of time

will be devoted to instruction in Systematic Theology on the basis of a text-book, and to the delivery of discourses by the students. In addition to the oral examinations on the Lectures, examinations in writing on the studies of the class will be held at intervals during the session.

The class will meet on five days of the week, at 12 o'clock.

Fee for each session, Three Guineas.

### ORIENTAL LANGUAGES.

This Professorship was founded by Queen Anne, 1709. The Professor is appointed by the University Court.

## Professors.

1709. Charles Morthland.	1761. Robert Trail, D.D.
1745. Alexander Dunlop, M.A.	1761. Patrick Cumin, LL.D.
1751. William Rouet.	1814. Gavin Gibb, D.D.
1753. George Muirhead.	1831. William Fleming, D.D.
1755. John Anderson, M.A.	1839. George Grey, D.D.
1757. James Buchanan, M.A.	1850. Duncan H. Weir, D.D.
1977 Large Popperson D.D.	

1877. James Robertson, D.D.

## ARRANGEMENT OF CLASSES FOR SESSION 1881-82.

I.—Junior Hebrew Class, 10 A.M. (1) Hebrew Grammar, from the elements, with progressive exercises, oral and written. (2) Reading from the Scriptures. Students preparing for the ministry are recommended to take this class before entering the Divinity Hall.

II.—Senior Hebrew Class, 9 a.m. (1) More advanced study of the Hebrew Grammar. (2) Reading from the Prophetical and Poetical Scriptures, with Lectures and Expositions. Before being enrolled for this class, students must pass an examination on Hebrew Grammar, and Genesis i.-x. inclusive, or an equivalent portion of the Hebrew Scriptures.

III.—Private Syriac Class, 1 P.M. Three days in the week,

viz., Monday, Tuesday, and Thursday.

IV.—Lectures on Old Testament Introduction. Wednesday,

Class Fee, £3, 3s. Students who have taken two complete sessions may enrol for a third or fourth free. The Fee for Syriac is £1, 1s. The Lectures on Wednesday at 1 P.M. are free.

### ECCLESIASTICAL HISTORY.

The Professorship of Ecclesiastical History was founded by George I, in the year 1716, but no appointment was made to the Chair till the year 1720. The Professor is appointed by the Crown.

## Professors.

## 1721. William Anderson.

1752. William Rouet. | 1807. William M'Turk, D.D. 1762. William Wight, D.D. 1841. Jas. Seaton Reid, D.D.

1778. Hugh M'Leod, D.D. 1851. Thos. T. Jackson, D.D.

## 1874. WILLIAM LEE, D.D.

The class of Ecclesiastical History meets from 11 to 12 o'clock, on five days of the week. The course extends over two sessions, and embraces a series of lectures, as well as oral and written examinations, the latter being in part founded on a text-book. To suit the class arrangements, the Church History Class should be taken in two consecutive years. The fee for each session is Three Guineas.

By his commission, the *Professor* of Ecclesiastical History is also Lecturer on Civil History in the University.

## DIVINITY AND BIBLICAL CRITICISM.

This Professorship was founded by ordinance of the Universities Commissioners, of date 25th November, 1861. The Professor is appointed by the Crown.

## Professors.

1863. William P. Dickson, D.D. 1873. WILLIAM STEWART, D.D.

This class will meet, on five days of the week, at 10 A.M.

The course of lectures is arranged to extend over two sessions; and the class should accordingly be attended in two *consecutive* years.

The lectures for 1881-82 will treat of the Principles of Textual Criticism, and of some portions of New Testament Introduction.

The practical application of the principles of Criticism and Hermeneutics will be illustrated in Exegetical Lectures, and by the reading of portions of the Greek New Testament. LAW. 61

Essays on Subjects suggested by the work of the class are prescribed at intervals during the session, and the progress of the students is further tested by examinations, partly oral and partly written.

Fee for each session, Three Guineas.

### III.—FACULTY OF LAW.

The Faculty of Law embraces the classes of Law (including Scotch Law and Civil Law) and Conveyancing, and also the class of Medical Jurisprudence. In this Faculty there are also Lectureships on Public Law, and on Constitutional Law and History. The Lecturers are appointed for the term of four years.

### LAW.

This Professorship is in the gift of the Crown. After being long in abeyance forwant of revenue, it was revived and endowed by Queen Anne, in 1713.

## Professors.

1714. Wm. Forbes, Advocate. 1746. Wm. Cross, Advocate. 1750. Hercules Lindsay, LL.D.

1761. John Millar, Advocate. | 1855. George Skene, Advocate.

## 1867. ROBERT BERRY, M.A., Advocate.

1. Scotch Law — The course extends to about 100 Lectures, besides the meetings of the class for examination; and it embraces as full a course of Scotch Law in each session as the time will permit. It includes Lectures on the Sources and Development of the Law of Scotland; the Law of Contracts and Obligations generally, their Constitution and Extinction, Legality and Illegality; the Law of Sale, at Common Law and as affected by Statute; Stoppage in transitu; Retention and Lien; Loan; Deposit; Pledge; Hiring, and the Law of Master and Servant; Law of Carriers and Affreightment; Mandate; Partnership; Bills of Exchange; Cautionary Obligations; Marine, Fire, and Life Insurance; Law of Heritage; Rights of Fishing; Servitudes; Teinds; Prescription as applicable to Heritage; Law of Landlord and Tenant; Succession in Heritage and Moveables, Testate and Intestate; Marriage and Divorce, and the Rights of Husband and Wife; Law of Parent and

Child; Guardian and Ward; Actions and Evidence; Damages; Bankruptcy; Criminal Law, &c.

The text-book recommended to students is Bell's "Principles

of the Law of Scotland."

The class meets five days a week—viz., every day except Monday, from 8 to 9 A.M. At intervals throughout the session the hour is devoted to the ordinary class examinations, which are conducted in writing.

The Fees for the Class of Scotch Law are £4, 4s, for the first year of attendance, £2, 2s, for the second, and £1, 1s, for

the third.

Three Prizes are given by the University for proficiency in the class examinations. An annual prize is also given by the Faculty of Procurators, generally for distinction in a special written examination towards the end of the session.

2. CIVIL LAW.—In addition to the class of Scotch Law, a class of Civil Law will be formed in alternate sessions.

The text-book recommended is Sandars' Institutes of Jus-

tinian.

The Fee for the Class is £4, 4s.

It is proposed to form a class of Civil Law in session 1881-82.

## CONVEYANCING.

This Chair was instituted by ordinance of the Universities Commissioners, of date 15th June, 1861, which was approved by Her Majesty in Council on 11th October, 1861. The right of appointment to the Chair is vested in the Dean and Council of the Faculty of Procurators, Glasgow.

## Professors.

1862. Anderson Kirkwood, LL.D. 1867. James Roberton, LL.D.

The course extends to upwards of 80 Lectures, arranged under the following heads: (1.) Introductory and Preliminary Lectures,—the latter embracing the Authorities to be cited, the Registers to be referred to, and the Stamp Laws to be observed. (2.) The essential requisites of, and the clauses common to, all Deeds. (3.) Personal Bonds, Personal Contracts (other than Marriage Contracts), and Deeds, inter vivos, relating to Moveable Estate. (4.) The Feudal and Burgage System, the consti-

tution of Feudal and Burgage Rights, and the transmission thereof by Deeds inter vivos, or by Judicial Acts. (5.) Heritable Securities. (6.) Leases. (7.) Marriage Contracts, Bonds of Provision, Testamentary Deeds and Deeds of Entail. (8.) The completion of Titles, in case of death, to Heritable and Moveable Estate, whether Testate or Intestate.

Lecture Days—Tuesday, Wednesday, Thursday, and Friday. Examination Day—Saturday. Fee for first year's students,

£4. 4s.; second year's students, £2, 2s.

Prizes are given by the University and the Professor for eminence in the class examinations during the session. Prizes are also given by the Faculty of Procurators for distinction in a written examination towards the end of the session, generally on the completion of Titles in Feudal Conveyancing.

# MEDICAL JURISPRUDENCE. (See under Faculty of Medicine.)

### PUBLIC LAW.

This Lectureship was instituted by the University in 1878.

\*Lecturer.\*

## 1878. WILLIAM GALBRAITH MILLER, M.A., LL.B.

The course for session 1881-82 will extend to upwards of forty Lectures, besides the meetings for examinations, and will

comprise-

1. A series of Lectures on Abstract Jurisprudence, showing the relation between Law and Philosophy, and between the different branches of Positive Law. *Text-book*—Lorimer's Institutes of Law.

2. A series of Lectures on the History of International Law, from the earliest times to the present day, illustrating the development of the more important doctrines, and showing the present state of the law. *Text-book*—Woolsey's Introduction (5th edition).

3. A series of Lectures on Private International Law, the special topics to be treated being Marriage and Divorce. Text-book—Guthrie's Savigny. Written exercises are prescribed weekly, and there is a written examination on each division of the course. Students intending to join the class are recommended to acquire a general knowledge of the leading events of the modern history of Europe and America. See Vacation Exercises.

The class meets from 9 to  $10~{\rm A.m.}$ , on Tuesdays and Fridays, during the winter session.

Class Fee—First year, £3, 3s.; second year, £1, 11s. 6d.

### CONSTITUTIONAL LAW AND HISTORY.

This Lectureship was instituted by the University in 1878.

### Lecturers.

1878. Charles Scott Dickson, M.A., Advocate. 1878. ALEXANDER URE, M.A., LL.B., Advocate.

The Lectures will be partly Doctrinal and partly Historical. They will embrace chiefly the subjects discussed in the textbooks prescribed for those who propose taking the degrees of B.L. and LL.B. In the Doctrinal Lectures the following subjects will be treated of:—The Crown; the Cabinet; the Privy Council; Parliament; Local Government. The Historical Lectures will cover the period from the Anglo-Saxon migrations to the present reign.

The class will meet in alternate years during the Summer Session in the Faculty Hall, St. George's Place, five days a week, viz.:—On Monday, Tuesday, Wednesday, Thursday, and Friday,

at 5 P.M. Fee for the course, £3, 3s.

No class will be held till the Summer Session of 1882.

### IV.—FACULTY OF MEDICINE.

The Faculty of Medicine embraces the classes of Practice of Medicine, Anatomy, Natural History, Surgery, Midwifery, Chemistry, Botany, Materia Medica, Institutes of Medicine, Medical Jurisprudence, Clinical Surgery, Clinical Medicine, and Pathology, on all of which attendance is required for the Degree of M.B. To this Faculty also belongs the Lectureship on Diseases of the Eye.

## PRACTICE OF MEDICINE.

This Professorship, created in 1637, but long suppressed for want of revenue, was revived and endowed in 1713. It is in the gift of the Crown.

Professors.

1714. John Johnstoun, M.D. 1789. Thomas C. Hope, M.D. 1751. William Cullen, M.D. 1796. Robert Hamilton, M.D. 1827. Charles Badham, M.D. 1841. William Thomson, M.D. 1862. WILLIAM TENNANT GAIRDNER, M.D.

The course is directed to the exposition of the Healing Art in its more practical aspects, having regard especially to those general principles and doctrines which are more directly available at the bedside of the sick. It is the object of the Lecturer to enforce these principles from a variety of points of view, rather than to give a complete synopsis annually of the individual details of practice in all departments. He is, therefore, in the habit of varying the arrangement of the course from year to year, in order that the mind of the student may be brought to bear upon different aspects of the subject with sustained and renewed attention. In 1881-82 the first part of the course will be occupied with the acute specific fevers and allied diseases (e.g. Cholera), in treating of which the general doctrines of contagion and infection will be discussed; as also of pyrexia, and of the application of the thermometer to the diagnosis of disease in general. An attempt will be made to afford some practical illustration of the fevers by pre-arranged visits on Saturdays to the hospitals under the administration of the Local Authority. Two days a week, up to Christmas, will be reserved for the elements of Physical Diagnosis, which will be taught as far as possible in connection with demonstrations at the Western Infirmary, and with special reference to Diseases of the Heart and Circulation, which will be considered in detail, and thereafter the Diseases of the Urinary Organs, of the Nervous System, and such other important details as time will permit. The course will be illustrated by drawings, wax casts, models, and preparations of morbid Anatomy; and the Lecturer will also refer to the cases under his care in the Infirmary, and, in general, will lead the student to look to his Hospital practice as the evidence in detail of what is stated in the class-room.\*

<sup>\*</sup> During the summer Dr. Gairdner proposes to conduct a course preparatory to next winter's course, and involving systematic demonstrations of Urinary Pathology by Dr. Newman, with select illustrations of physical diagnosis of chest and abdomen, regard being had to the cases in the Western Infirmary. The class will meet on Tuesdays and Thursdays and will be open to all matriculated students of the University who have completed their second winter of study. It will, however, be distinct from Dr. Gairdner's Clinical Class at the Western Infirmary, which will be held as usual in summer.

Professor Gairdner conducts at the Western Infirmary, part of the Clinical Instruction given to the medical students connected

with the University.

Text-books.—Those most generally used in the class are— Bristowe's Theory and Practice of Medicine, 3rd edition, 1880; Finlayson's Clinical Manual (for diagnosis and hospital work); and Tanner's Index of Diseases (for reference to remedies and The following well-known systematic treatises, however, are also recommended, and may be used by those who prefer them, viz. :-Those of Sir Thomas Watson, Tanner (the larger work including the smaller Index), Frederick Roberts, Niemeyer (American Translation), Austin Flint (both his Practice and the more lately published Clinical Medicine). Aitken's "Science and Practice of Medicine" will be found specially useful by those who intend to enter the Army or Navy Medical Service. Fenwick "On Medical Diagnosis," and Gee "On Auscultation and Percussion," are smaller and more special works, which will be found very serviceable. Professor's "Clinical Medicine" (1862) is out of print, but will be found in the Reading Room, and may be used for occasional reference.

#### ANATOMY.

This Professorship, with which Botany was at first associated, was founded in 1718 by the Crown and College jointly. A separate Professorship of Botany was established in 1818, a distinct lectureship on that branch having existed for a considerable time previously.

# Professors.

1720. Thomas Brisbane, M.D. | 1781. Wm. Hamilton, M.D. 1742. Robert Hamilton, M.D. | 1790. James Jeffray, M.D.

1756. Joseph Black, M.D. | 1848. Allen Thomson, M.D.

1750. Joseph Black, M.D. 1848. Allen Thomson, M.L. 1757. Thomas Hamilton, M.D. LL.D., F.R.S.

1877. JOHN CLELAND, M.D., F.R.S.

#### Demonstrators.

William Allen, M.D. James A. Adams, M.B. Angus Macphee, M.B.

In the Winter Session, Anatomical Instruction is conducted in the following courses, viz. :—

- 1. Descriptive or Elementary Course of Lectures.—This class meets on five days weekly, from 2 to 3 o'clock. The lectures comprehend a full systematic description of the Bones, Joints, and Muscles, and a general view of the Vascular and Nervous Systems, and of the more important Internal Viscera.
- 2. Advanced Course of Lectures and Demonstrations.—This class meets on five days weekly, from 11 to 12 o'clock. The course comprehends: 1st, A Description of the Distribution and Relations of the Blood-Vessels and Nerves, with Demonstrations of Regional or Topographical Anatomy; 2nd, a detailed Description of the Viscera, and of the Brain and Organs of the Senses; 3rd, General and Special Histology.

On Saturday, at 11 o'clock, the senior class meets weekly for

Microscopical Demonstrations.

3. Practical Anatomy, or Dissections made by the students, under the superintendence of the Professor and Demonstrators. The rooms are open from 9 to 4 o'clock daily, except on Saturdays, when they close at mid-day.

A tutorial class for junior students meets at a separate hour. Text-Books.—Quain's Anatomy, Ellis's Demonstrations;

Cleland's Directory for Dissection.

In the SUMMER SESSION, the rooms for Practical Anatomy are open from 8 A.M. to 2 P.M. daily. Demonstrations are given on Surgical and Topographical Anatomy, as well as lectures on some of the higher branches of Anatomy; and Elementary Instruction for beginners is also provided.

#### NATURAL HISTORY.

This Professorship was founded by George III, in 1807. The Professor is appointed by the Crown. In 1876 Mrs. Honyman Gillespie, of Torbanehill, endowed a Lectureship in Geology, to be called the "Honyman Gillespie Lectureship," in memory of her husband, W. Honyman Gillespie, Esq. The Professor of Natural History is the present Lecturer.

Professors.

1807. Lockhart Muirhead, LL.D.

1829. William Couper, M.D. | 1857. Henry D. Rogers, LL.D. 1866. John Young, M.D.

Honyman Gillespie Lecturer. 1876. John Young, M.D. The Lectures on Natural History will be delivered as follows:—

1. A course of Lectures on Zoology, three days weekly (Monday, Wednesday, Friday), at 9 A.M. commencing in October.

2. A course of Lectures on Geology, three days weekly (Monday, Wednesday, and Friday), at 5 p.m., commencing in November; and demonstrations or excursions on Saturdays.

Arrangements have been made for practical instruction in the Zoological Laboratory during the Summer Session. Labora-

tory Fee, £2 2s.

Engineering students and candidates for Degrees in Science should arrange their classes so that their final examination shall not take place till some months after their attendance at these classes.

The Professional Examinations in October, 1881, will have special reference to the *Annuloida* and *Reptilia*; those in April, 1882, to the *Insecta*, *Lamellibranchiata*, *Pisces*.

#### SURGERY.

This Professorship was founded in 1815, and is in the gift of the Crown.

# Professors.

#### 1815. John Burns, M.D.

1850. James A. Laurie, M.D. | 1860. Joseph Lister, M.B., F.R.S. 1869. George H. B. Macleod, M.D., F.R.S.E.

The Professor delivers during winter a course of lectures on the Principles and Practice of Surgery, and in summer conducts a course of Operative Surgery. He also conducts at the Western Infirmary part of the Clinical Instruction given to the Medical Students connected with the University.

#### MIDWIFERY.

This Professorship was founded by George III, in 1815. The Professor is appointed by the Crown.

#### Professors.

#### 1815. James Towers, M.D.

1820. John Towers, C.M. | 1834. William Cummin, M.D. 1833. Robert Lee, M.D. | 1840. John M. Pagan, M.D. 1868. WILLIAM LEISHMAN, M.D.

The Lectures embrace the Theory and Practice of Midwifery and the Diseases of Women and Children. The Professor was ex-officio Physician to the University Lying-in Hospital and Dispensary, an institution which was many years ago established in the neighbourhood of the old College. The altered circumstances of the school having, however, rendered this institution unavailable for Clinical instruction, other arrangements have now been made by which the Managers of the Western Infirmary have placed a ward for the Diseases of Women under the charge of the Professor. An out-door department of Practical Midwifery has also been established by them, by which it is hoped that ample opportunities of Clinical instruction may be afforded to the students.

#### CHEMISTRY.

This Professorship was founded by George III. in 1817, previous to which time (from 1747) there were Lecturers on Chemistry appointed by the University. The Professor is appointed by the Crown.

#### Lecturers.

1747. William Cullen, M.D	1769. William Irvine, M.D.
1756. Joseph Black, M.D.	1787. Thomas C. Hope, M.D.
1766. John Robison, LL.D.	1791. Robert Cleghorn, M.D.

#### Professors.

1818. Thomas Thomson, M.D. | 1852. Thomas Anderson, M.D. 1874. John Ferguson, M.A.

#### Assistants.

John Hutchison.

James J. Dobbie, D.Sc.

Lectures on Systematic Chemistry.

The Lectures of this course are delivered daily at 10 A.M. during the Winter Session. They commence with the discus-

sion of the General Principles of Chemical Philosophy, the Non-Metallic and Metallic Elements and their compounds are then treated of, and the latter part of the Course is devoted to the subject of Organic Chemistry.

Tutorial Classes. In addition to the regular lectures, the students are divided into small tutorial classes, which meet at 9 A.M., and receive additional instruction from Dr. Dobbie.

Written exercises are prescribed, and oral and written examinations are held during the session,\*

# Organic Chemistry.

A special course of Lectures on Organic Chemistry, more particularly intended for Medical Students, will be given hereafter in the Summer Session.

# Analytical Chemistry.

The Laboratory is open daily during the Winter and Summer Sessions from 10 A.M. to 4 P.M., for instruction in Chemical Analysis, and the application of Chemistry to Medicine and the Industrial Arts. Each student works independently. He is supplied with a table, gas, re-agents, &c., and goes through a regular series of analytical experiments of gradually increasing difficulty, until he is capable of performing a complete analysis. The more advanced students engage in original investigation.

Fee for the Winter Session, £10 10s.; for the Summer Session, £5 5s.

#### Practical Chemistry.

This Course, which is intended for Medical Students, is given during the Summer Session. It treats of the methods of testing the different bases and acids, the detection of poisons, and the preparation of the more important Pharmaceutical compounds.

Attendance on the course of Chemistry being required for the Certificate in Engineering Science, and for the degree of B.Sc., the attention of students is directed to the following points. It will be found of great advantage to attend the Laboratory course as well as the Lectures, and care should be taken to arrange the classes in such a manner as to leave an

cal History.

<sup>\*</sup> Arrangements are making by which short courses of from 12 to 20 or 25 Lectures on some special or advanced subject will be delivered during the Session The subjects of these courses will be announced from time to time.

It is proposed to give Lectures next Session on some of the subjects connected with the B.Sc. Degree, and also a course of Lectures on the earlier period of Modern Chemi-

interval for study between the conclusion of the Chemical

Classes and the Degree Examination.

The Senate have resolved that "Hereafter no candidate for a Certificate in Engineering Science shall be admitted to examination in the Department of Chemistry who has not attained to the value of 50 per cent. for his written exercises in the class."

For the "Malcolm Kerr," the "Metcalfe," and the "George A. Clark" Bursaries in connection with Chemistry, see under

"Bursaries."

#### BOTANY.

This Professorship was founded in 1818. The appointment is vested in the Crown. (See page 85, as to Botanic Garden.)

# Professors.

1818. Robert Graham, M.D.

1821. Sir Wm. J. Hooker, LL.D. | 1845. G.A. Walker-Arnott, LL.D. | 1841. John H. Balfour, M.D. | 186 . Alexander Dickson, M.D. | 1879. BAYLEY BALFOUR, M.B., D.Sc.

Lectures are given at the College every Tuesday, Wednesday, Thursday, Friday, and Saturday, at 8 A.M., during the months of May, June, and July, and, on Saturdays, excursions are also made for the study of plants in the fields.

Demonstrations of fresh specimens of plants are given in the

Botanic Garden during June and July.

The Botanical Laboratory at the College is open daily, from 9 a.m. to 4 p.m., from the beginning of May to the end of July, and from the beginning of November to the end of March. The University Herbarium may be consulted by Students on applying to the Professor. Students in the Botanical Class receive a ticket of admission to the Botanic Garden, and may obtain, by applying to the Professor, specimens of plants for private study.

Classes for practical work in the Botanical Laboratory are formed during the Summer Session at hours, so far as practic-

able, to suit the convenience of Students.

A Gold Medal is annually offered to Students in the Botanical Class for the best and approved Herbarium of British plants collected within a radius of 25 miles of Glasgow Bridge. (For particulars see notice at College).

At the First Professional Examination for the degree of M.B. in October, 1881, and in April, 1882, the systematic part of the subject of Botany will be confined to the principal British Natural Families, viz.:—Ranunculaceæ, Papaveraceæ, Cruciferæ, Caryophyllaceæ, Leguminosæ, Rosaceæ, Umbelliferæ, Compositæ, Scrophulariaceæ, Labiatæ, Amentaceæ, Orchideæ, Liliaceæ, Cyperaceæ, Gramineæ, Lycopodineæ, Filices, Muscineæ Fungi, Algæ and Lichenes.

Special stress will be laid upon the practical part of the

examination.

#### MATERIA MEDICA.

A Lectureship on this Branch was founded by the College in 1766, and a Professorship created by the Crown in 1831.

#### Lecturers.

1766. William Irvine, M.D.
1788. Robert Cleghorn, M.D.
1791. Richard Millar, M.D.

# Professors.

1831. Richard Millar, M.D. | 1855. John A. Easton, M.D. | 1865. John B. Cowan, M.D. | 1860. Matthew Charteris, M.D.

In accordance with alterations recently made in Ordinance No. 15, Glasgow No. 2, and approved by Her Majesty in Council, the instructions in Materia Medica will in future comprise a Winter Course, in which special attention will be given to Therapeutics, and a Summer Course to be called Practical Materia Medica.

# INSTITUTES OF MEDICINE, OR PHYSIOLOGY.

This Professorship was founded by Her Majesty, Queen Victoria, in the year 1839.

#### Professors.

1839. Andrew Buchanan, M.D. 1876. John Gray M'Kendrick, M.D.

# Assistant and Muirhead Demonstrator—J. M'Gregor Robertson, M.B.

#### SYSTEMATIC LECTURES.

The Lectures of this course are delivered daily at 12 noon during the Winter Session. They are devoted to an exposition of the main principles and facts of the Physiology of man, under the two following heads:—

1. General Physiology, which includes a description of the functions of the various tissues, and of the chemical reactions

which occur in the living body.

2. Special Physiology, or the functions of organs and systems of organs. This division of the subject includes (1) nutrition, (2) animal movements, (3) innervation, and (4) reproduction.

Written exercises are given, and written and oral examina-

tions are held during the session.

#### PRACTICAL PHYSIOLOGY.

During the Summer Session, practical instruction will be given in the Laboratory to classes of not more than thirty students in each class, at such hour or hours as may be found convenient. In this course the student will be taught:—(1.) To use the microscope in the examination of the various tissues of the body with the aid of modern methods of hardening, staining, injecting, and mounting preparations. (2.) To analyse the principal fluids of the body, with special reference to the physiological processes by which they are produced. This department is intended as preparatory for clinical duties in the Hospital. (3.) To observe physiological phenomena by modern methods. He will be instructed in the use of physiological apparatus, and will have the opportunity of acquiring information which cannot readily be communicated in systematic lectures. Fee £3 3s.

# The Laboratory.

The Laboratory is open daily from 10 a.m. to 4 r.m., under the superintendence of the Professor, to whom application should be made by those who may wish to pursue original investigation. It is now furnished with the most modern appliances both for research and for the illustration of lectures on Physiology. This has been accomplished at an expenditure of about £2,000. The Senatus voted from its funds £250, and a sum of £1,200 was contributed by the Chancellor of the University, and a number of gentlemen connected with the city and neighbourhood.

#### Text-Books.

Outlines of Physiology, in its relations to man, by Dr. M'Kendrick. A small work suitable for the practical class is in the press.

#### THE MUIRHEAD DEMONSTRATORSHIP OF PHYSIOLOGY.

In December, 1876, Dr. Henry Muirhead, of Longdales, Bothwell Parish, presented to the University the sum of £2,100, and in November, 1879, a further sum of £400 to endow a demonstratorship of Physiology in connection with the Chair of Institutes of Medicine—the main object being the promotion of medical science by the training of young men of suitable capacity to become teachers and investigators of physiology. The regulations with reference to the appointment are as follows:—

1. That the title of the appointment be "The Muirhead

Demonstratorship of Physiology."

2. That the holder of the office shall act as an assistant to the Professor of Institutes of Medicine in teaching the classes of Systematic and Practical Physiology and in original investigation.

3. That he shall also be expected and encouraged to engage in independent scientific investigation under the direction of

the Professor.

4. That he will not be entitled to conduct any class on his own account without the consent of the Professor.

5. That the incumbent will be expected to devote his entire

time to the duties of the appointment.

6. That the appointment be made annually by the Senatus Academicus, with the Consent of the University Court, on the recommendation of the Professor of the Institutes of Medicine, who shall furnish evidence to the Senatus of the suitability of the person recommended by him.

#### MEDICAL JURISPRUDENCE.

This Professorship was created by the Crown in 1839.

# Professors.

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D. 1872. Pierce Adolphus Simpson, M.D.

The lectures on Forensic Medicine are intended to elucidate

tne application of Medical Science to judicial proceedings, whether civil or criminal.

The first part of the course is occupied with Medical Evidence as bearing on personal injuries, including Poisoning. This is followed by questions connected with the Sexual Functions, and questions relating to Bodily and Mental Soundness.

In addition to oral examinations, subjects are prescribed for written exercises; and in the department of Toxicology facilities are afforded for students desirous of becoming practically acquainted with the tests for poisonous substances, and the processes for separating these from organic mixtures.

N.B.—The Lectures on Forensic Medicine are delivered during the Summer Session, daily at 11 A.M.

#### CLINICAL SURGERY.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

# Professor.

# 1874. GEORGE BUCHANAN, M.A., M.D.

The Professor teaches Clinical Surgery by "Lectures and other instruction" on the cases of patients affected with injuries, diseases, &c., requiring Surgical treatment. There is a summer as well as a winter course.

# CLINICAL MEDICINE.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

# Professor.

# 1874. THOMAS M'CALL ANDERSON, M.D.

The Professor teaches Clinical Medicine by "Lectures and other instruction" on the cases of patients requiring Medical treatment. There is a summer as well as a winter course.

# DISEASES OF THE EYE.

This Lectureship was instituted by the University in 1828. Great advantages are afforded to students for the study of this branch of practice by the Lecturer being one of the Surgeons of the Glasgow Eye Infirmary.

#### Lecturers.

1828. William M'Kenzie, M.D. | 1868. George Rainy, M.D. 1869. Thomas Reid, M.D.

# Waltonian Medical Lectureship.

Founded in 1788, by the Rev. Dr. William Walton, of Upton, in the County of Huntingdon, who bequeathed to the Senate for its support the sum of £1,000, which has been increased by subsequent accumulations to £2,250. It is at present held by Dr. Thomas Reid, who is also Lecturer on Diseases of the Eye.

# III.—LIBRARIES, MUSEUM, BOTANIC GARDEN.

#### UNIVERSITY LIBRARY.

The University Library was founded in the fifteenth century. It contains an extensive and valuable collection of books. The Library is under the management of a Committee appointed annually from the Members of Senate. The Librarian is elected by the Senate.

The Library is always increasing by donations and by a grant of £707 per annum from the Treasury, as compensation for the loss of the Stationers' Hall privilege.

The following are the principal regulations relative to the use of the Library by the various classes of readers:—

Each Member of the Senatus Academicus is entitled to have in his possession at one time twenty-five volumes, but not more.

Retired Principals and Professors are entitled to have in their possession at one time ton volumes, but not more

sion at one time ten volumes, but not more.

Any Assistant to a Professor, or Examiner for Degrees, to whom the Senatus Academicus shall think it expedient to grant the privileges of the Library, is entitled to have in his possession at one time ten volumes, but not more.

Each Member of the General Council is entitled, in each year in which he shall have paid a subscription to the Library of Ten Shillings and Sixpence, to have in his possession at one time four volumes, but not more. The annual subscription may be compounded for by a single payment of Five Guineas. In the case of a Member of the General Council, the year commences at 15th October.

Every person in each of the foregoing classes is entitled to retain each book for one month from the date of borrowing during the Winter Session, and for two months from the date of borrowing during Summer,

and is further, after the expiration of such period, entitled to retain each book until the annual period of inspection, unless notice shall be received

from the Librarian requiring the return of such book.

Any Graduate of the University, who, by reason of being under the age of twenty-one years, is not qualified to be a Member of the General Council, is entitled (on payment of an annual subscription of Ten Shillings and Sixpence, if he be not a Matriculated Student) to have in his possession at one time four volumes, but not more. The Reading term for Graduates under twenty-one years of age who are not students is the same as that for Members of the General Council.

Every Matriculated Student enrolled in a Class is entitled, on lodging with the Librarian a deposit of One Pound, to have in his possession two volumes (in Summer four volumes) at one time, and to retain any book for two weeks (in Summer, four weeks) from the date of borrowing; and further, to re-borrow any book for successive periods of two weeks (in Summer, four weeks), unless application for it shall, in the meantime, have been made by another person entitled to the use of the Library.

No reader is entitled to borrow books in more than one capacity, e.g.

as Student and as Member of the General Council.

If any book, by whomsoever borrowed, be not returned within three days after notice shall be sent by the Librarian requiring the return of such book, a penalty of One Shilling a volume is incurred, and a further penalty of Sixpence a volume for each day so long as the book is not returned, until the full amount of the fine shall exceed the sum for

which the book can be replaced in the Library.

The Librarian is entitled to have in his possession at one time ten volumes, but not more; and any Assistant-Librarian, to whom the Senatus Academicus shall think it expedient to grant the privilege of the Library, shall be entitled to have in his possession at one time four volumes, but not more; provided always that all books borrowed by the Librarian or by any such Assistant-Librarian as aforesaid shall be duly and regularly entered in the ordinary Record of the Library as being borrowed, in the same manner as books borrowed by other persons.

The Senatus Academicus may grant the use of the Library to such extent, and on such conditions as they shall think expedient, to persons for purposes of literary research, and that whether such persons shall be members of the University or not; provided always that no such privilege shall in any case be granted, except by Minute of the Senatus specifying the grounds on which the grant is made, and the conditions which have been attached thereto, an extract of which Minute shall be forthwith transmitted to the University Court; provided also that all such persons shall pay a subscription to the Library of Ten Shillings and Sixpence for the current year.

All grants of the use of the Library made by the Senatus Academicus, in pursuance of the preceding section, shall terminate at the annual period of inspection of the Library, but shall be renewable under like

conditions, if again applied for on the expiration of that period.

Books belonging to the Library must not be privately transferred from one reader to another; and must not be lent to Graduates or Students who are not readers.

The Librarian is strictly forbidden to send books by a public conveyance, or do more than deliver books over the counter to a person properly authorised to receive them; and he is empowered, if he think fit, to decline to give out books to any one, other than the reader applying in

person.

The following classes of books are not given out except on an order signed by three Members of Committee: Manuscripts, Specimens of early Typography, Works containing valuable Engravings, Dictionaries and other works of reference (unless when there is a duplicate in the Library), Maps of a larger size than 20 inches in height and breadth, loose Maps, unbound Music, Works with loose Plates or loose Letterpress, Rare Books, or Books in any way difficult to replace, Pamphlets, stitched Parts of large Works, or Books not sufficiently protected by the binding,

A general inspection of the Library, and of the Record of the borrowing and returning of the books, takes place annually in April, beginning

with the 15th and ending with the 22nd.

During the period of the annual inspection, the Library is closed, and all works whatsoever, and by whomsoever borrowed, must be returned to the Library before the commencement of such period, under a penalty of not less than One Shilling a volume; and in the event of any volume not being returned before the expiration of one week after the last day of the inspection, the fine is repeated weekly, until such volume is returned, or until a copy of the work of the same edition, and of equal value, shall at the expense of the borrower be placed in the Library in its stead.

So long as any person shall remain in possession of a book which he is not entitled to retain, or shall allow any fine incurred by him to remain unpaid, the right of such person to borrow or retain any books whatsoever, or to exercise any of the privileges of the Library, is suspended, and remains in abeyance.

Each person returning a book to the Library must see that the book is marked as returned opposite the corresponding entry in the Receipt Book. For every borrower is liable to replace any volume entered in

the Receipt Book in his name and not so marked as returned.

The Librarian is instructed forthwith to report to the Library Committee all cases in which he shall find that books have been mutilated, disfigured by writing on the margin, or otherwise injured while in the possession of readers; and persons guilty of such offences shall be liable to replace the injured books, and shall be fined or suspended from the privileges of the Library at the discretion of the Committee.

All readers borrowing books from the Library must obtain them from, and return them to, the Assistant-Librarians in the ante-room on the

days and during the hours when the Library is open.

Persons other than students who wish to consult books in the Library will be accommodated in the First Bay of the Lower Hall. Each person must enter his name and address, and the title of the work or works which he desires to consult, in a book kept for that purpose.

Visitors on giving their names will be conducted over the Library by an attendant. They are not permitted to enter the Reading-Room

during the bours when it is open to students.

No person, except Members of Senate, shall otherwise be admitted to the interior of the Library without the special permission of the Curator of Librarian.

All persons, whether readers or visitors, are strictly prohibited from entering the Bays or taking the books from their places on the shelves.

The Library is open for giving out and receiving back books every lawful day during the Winter Session, from 11 A.M. till 2-30 P.M., except the Christmas holidays, and the Sacramental Fasts and two following days, when it remains closed, and on Saturdays, when it is open from 11 A.M. till 1 P.M. During the Summer recess it is open on Mondays, Wednesdays, and Fridays, from 11-30 A.M. till 2 P.M.

Reading-Room.—Every matriculated student is entitled to consult books in the Reading-Room, which is open for that purpose every lawful day, except Saturday, during the Winter Session, from 9 A.M. till 3 P.M.; during the Summer Session (from 1st May to 30th July) from 11 A.M. till 2 P.M.

List of Donations to the Library from 1st March, 1880, to 28th February, 1881.

Corporation of London.—Catalogue of Library. 15th Supplement. 1879. Rev. Alex. Williamson, LL.D.—Christ Jesus, the light and life of the world. (In Chinese.) 1879.

Trustees of Geo. Combe, Esq.—Combe, Education. 1879.

St. Louis Public School Library.—Annual report. 1879.—Bulletin. Nos.

Society of Antiquaries of Scotland.—Proceedings. XII., 2, XIII., XIV. 1878-80.

Royal Astronomical Society.—Memoirs. XLI., XLV. 1879-80.—Monthly

notices. XL., 4-9; XLI., 1, 2. George Gulliver, Esq., F.R.S.—Hunterian oration. 1863.—Notes of some

researches in anatomy, physiology, etc.

South Kensington Museum.—Catalogue of models of machinery, etc. 1880. -Parry, Spirit fresco painting. 1880.—Directory. 35th edition. 1880.—Twenty-seventh report of the Science and Art Department. 1880.—Art directory. August, 1880.—List of works on heraldry in the National Art Library. 1880.—Prospectus of Whitworth's scholarships. 15th edition. 1880.—Carpenter, Catalogue of the water-colour drawings of Indian views. 1881.—Examination papers. April and May, 1880. Shoshee Chunder Dutt.—India, past and present. 1880.

W. J. Millar, Esq., C.E.—On the mechanical transmission of sound by wires.

Lords of the Treasury.—Register of the Privy Council of Scotland. III. 1880.—Exchequer rolls of Scotland. III., IV. 1880.

James Simson, Esq.—Charles Waterton, naturalist. 1880.—English universities and John Bunyan. 1880.

James Paton, Esq., F.L.S.—Report on City Industrial Museum, etc., for 1879.—Catalogue of Naval and Marine Engineering Exhibition, Glasgow. 1880.

J. Muir, Esq., C.I.E., Edinburgh.—Metrical translations from Sanskrit writers. 1879.—Reville, Leçon d'ouverture, 1880.—The Saddarshana-Chintanikâ. III., 8-12, IV., 1-11.—Translations from the Mahābhārata. 3 parts.—Kaegi, Die Rigveda. 1881.

Royal Society of Edinburgh.—Transactions. XXVIII., 3, XXIX., 1. 1879.

-Proceedings. Session 1878-9.

Representatives of Geo. Hadfield, Esq., M.P.-James, History of litigation respecting Presbyterian chapels. 1816-49. Medical Board of Victoria.—Register for 1880.

William G. Miller, Esq., LL.B.—Correspondence relating to the Congress of Berlin. 1878.

Professor Young, M.D.—Zola, Nana. 1880.—Statuta Universitatis Oxoniensis. 1870.—Zola, L'assommoir. 1879.—Tardieu, Étude médico-légale sur les attentats aux moeurs. 1873.—Catalogue of pictures, sculptures, etc., in the University of Glasgow. 1880.—D'Halloy, Précis élémentaire de géologie. 1843.

Local Government Board.—Report of the medical officer for 1878.

Irish medical directory for the year 1880.

John T. Nagle, Esq., M.D., New York.—Summary of births, marriages, etc.,

in New York City, for 1878.

Trustees of New York State Library.—Centennial celebrations of the State of New York. 1879.—Annual reports of the Library. 58th to 61st.—Annual reports of the Regents of the University. 88th to 92nd.—Report on the State Normal schools. 1879.—Census of the State of New York for 1875. F. T. Barrett, Esq.—Report on the Mitchell Library. 1874-79.

Secretary of State for India.—Sacred books of the East. I.-IX. 1879-80.—Great Trigonometrical survey of India. V. 1879.—Fergusson and Burgess, Cave Temples of India. 1880.—Sewell, Report on the Amaravati

Tope. 1880.

William Brown, Esq.—Greenbackism.

Professor Dickson, D.D.—Gorman, Athanasian Creed and modern thought. 1870.—Hunterian Club publications. Nos. XLVII. to LV.—Address at the opening of the classes in the Faculty of Theology. Nov., 1880.—Watson, Report upon the statistics of Glasgow for 1878.—Porter, Science and revelation. And 23 other pamphlets.—Revue théologique. 1870-75.—Laurie, Handbook on education. 1879.—Moncreiff, Vindication of the Claim of Right. 1877.—Bulletin théologique. 1866-69.—Smeaton, National Christianity and Scriptural union. And 30 other pamphlets.—Periodicals per Dr. Dickson. The Academy. Nos. 400 to 438.—Catholic Presbyterian. Nos. 13, 16-19.—Church Quarterly Review. Nos. 18, 19.—Princeton Review. Jan. to July, 1880.—Nineteenth Century. Nos. 35-38, 40, 41.

John B. Cowan, Esq., M.D.—Glasgow Chronicle. 1814-17. 3 vols.—MS. lectures on materia medica, by Richard Millar, M.D. 5 vols.

Merton College, Oxford.—Catalogue of the printed books in the Library of

Merton College. 1880. Collyns Simon, Esq., LL.D.—The solar illumination of the solar system.

1879. University of Melbourne.—Proceedings on laying the memorial stone of the Wilson Hall. Oct. 2, 1879.

1)r. Finlayson, Glasgow.—Finlayson, Nehemiah: his character and work.

Olaf S. Jensen, Bergen. - Die Structur der Samenfäden. 1879.

Major L. A. Huguet-Latour, M.A., Montreal.—Condensed catalogue of MSS. books, etc., at the Caxton celebration, Montreal. 1877.—Canadian Antiquary. I., 1, VI.-VIII., IX., 1.—26th and 27th annual reports of the Natural History Society of Montreal. 1854-5.—Constitution and by-laws of the Natural History Society of Montreal. 1859.

Pharmaceutical Society.—General index to the Journal. 1868 to 1878.—Bell and Redwood, Historical sketch of the progress of pharmacy. 1880.—The

Calendar. 1881.—Journal. Nos. 505-557.

Institution of Civil Engineers.—Minutes of proceedings. LIX.-LXII. 1880. James Macdonald, Esq., Dunfermline.—Origin and destiny of comets.

Dexter A. Hawkins, Esq., A.M., New York.—Roman Catholic Church in New York City.

Department of the Interior, U.S.—Gilbert, Report on the geology of the Henry Mountains. 1877.

Committee on Educational Endowments in Glasgow.—Report. 1880.

Andrew Macgeorge, Esq.—Papers on the Free Church. 1875.

Accademia dei Lincei, Rome.—Atti. Serie 3ª. Memorie. Classe Morali. III. Classe Fisiche. III., IV. Transunti. IV., 3-7, V., 1-5, Thomas P. Kirkman, Esq., M.A.—On the simplest possible experiment in

physical science.

Geological Survey of India.—Memoirs. XV., 2, XVII., 1 and 2.—Palaeontologia Indica. Ser. X., 4, 5, XIII., 2, XIV., 1.—Records. XII., 4, XIIĬ., 1, 2.

H. Kato, Tokio. - Memoirs of the Science Department, University of Tokio. I., 1, II, 1879.

The Middle Temple. - Catalogue of printed books in the Library. 1880.

Rev. James Mearns.-Works of the author of the Whole duty of man. 1704. James B. Russell, Esq., M.D.—Report upon certain epidemic outbreaks of enteric fever, in April, 1880.

Dr. Frederik Eklund, Stockholm.-Den miasmatiskt-kontagiösa lungsotens. 1880.—Bidrag till utredning af frågan om den kroupösa pneumoniens.

Queen's University, Kingston.—Calendar for the year 1880-81.

Le Ministre de l'Instruction Publique, Paris. -Houel, Catalogue des pièces du Musée Dupuytren. III. et atlas, IV. et atlas. 1878-9.

General Assembly of the Church of Scotland.—Report on the schemes for the year 1880.

Birmingham Philosophical Society.—Proceedings. I., II., 1. 1879-80.

University College, Toronto.—Calendar for 1880-81.

Musical Association, London.—Proceedings. Sixth Session, 1879-80.

Penzance Public Library.—Catalogue of books in the Halliwell Compartment. Part II. 1880.

Mineralogical Society of Great Britain and Ireland. —Mineralogical Magazine and Journal. Nos. 14-17.

Hibbert Trustees.—Renouf, Hibbert Lectures. 1879.—Renan, Hibbert Lec-1880.

Batavia Observatory,—Bergsma, Regenwaarnemingen in Nederlandsch-Indie. 1879.—Magnetical and meteorological observations. IV. 1879.

Mr. James Murphy.—Petrarca, De remediis utriusque fortunae libri duo. 1618.—Lubin, Clavis Graccae linguae. Editio nova. 1664.—Erra Pater, The book of knowledge. Made English by W. Lilly. 1755.—Horn, Historia naturalis et civilis. 1670.—Guida de forestieri curiosi di videre. Neapoli, -Melanchthon, Elementorum rhetorices libri duo. Basil. 1563. -Godwyn, Civil and ecclesiastical rites used by the Hebrews. 1655.— Sprat, History of the Royal Society of London. 2nd edition. 1702.—Scheibler, Liber sententiarum. 1615.—Grotius, De veritate religionis Christianae. 1684.—Spener, Epistolae ad Romanos et Corinthios homiletica paraphrasi illustratae. 1691.—Justinus cum notis selectissimus variorum. 1669.—Boyle, Experimenta et considerationes de coloribus. 1667. -Joco-seriorum naturae et artis, sive magiae naturalis centuriae tres.

James Thin, Esq., Edin.—Moir, Continuous Latin prose. 1880.

Trustees of the British Museum.—Illustrations of typical specimens of lepidoptera heterocera. IV. 1879.—Catalogue of Oriental coins. V. 1880. U. S. Coast and Geodetic Survey. Report. 1876.

Dawson Brothers, Montreal.—Canadian naturalist. IX., 5-7.

Greenwich Observatory. - Spectroscopic and photographic results. 1878 and

1879.—Astronomical observations. 1878.

A. B. M'Grigor, Esq., LL.D.—Paris, ou le livre des cent-et-un. 15 tomes. 1832-4.—Works of William Hutton, F.A.S.S. 8 vols. 1817.—Winterbotham, Historical view of the United States and the West Indies. 4 vols. 1795.—Scenes and sketches in legal life. 1876.—Palmer, Catalogue of the

Arabic, Persian, and Turkish MSS. in Trinity College, Cambridge. 1870. —Carlyle, Chartism. 2nd edition. 1842.—Handbook for travellers in Wiltshire, Dorsetshire, etc. 1869.—Handbook for travellers in Durham and Northumberland. 1864.—Baedeker, Switzerland. 1877.—Carey, The clive branch. 1815.—De Lolme, The constitution of England. 1784.—Select works of William Penn. 5 vols. 1782.—Gillies, History of ancient Greece. 4 vols. 1787.—Stuart, View of society in Europe. 1792.—Cox. Annals of St. Helen's, Bishopsgate, London. 1876.—Oldmixon, History of England from Henry VIII. to George I. 3 vols. 1730-9.—Correspondence respecting the affairs of Naples and Sicily. 1848-49.—Further papers relative to the expeditions in search of Sir John Franklin. 1855.—Correspondence respecting the affairs of Italy. Jan. to May, 1859.—Journals and proceedings of the Arctic expedition. 1875-6.—Nouveau theatre du Piemont et de la Savoye. 2 tomes. 1725.—Reports and plans of proposed boundaries of boroughs in Ireland, and counties and boroughs in England. 1832. 8 parts.—Returns relative to the 120 smallest boroughs. 1834.— The Times. 1804.

Royal Society of Victoria.—Transactions and proceedings. XVI. 1880. John Shedden Dobie, Esq., Morishill.—The Church of Kilbirnie. 1880.

David Murray, Esq., M.A.—Old Cardross: a lecture. 1880.

Smithsonian Institution, Washington.—Contributions to knowledge. XXII.—Miscellaneous collections. XVI., XVII.—Report. 1878.

University College, London.—Calendar. 1880-81.

William Grossart, Esq., Surgeon.—Historic notices of the parish of Shotts. 1880.

Professor Cleland, M.D.—Variations of the human skull. And 21 other papers.

Union of American Hebrew Congregations.—Statistics of the Jews of the United States. 1880. Ercole Roselli.—Logica e critica. 1879.

F. P. Marrat, Esq., Liverpool.—Varieties of the shells belonging to the genus Nassa, Lamb. 1880.

Sir William Muir, K.C.S.I.—Life of Mahomet. 4 vols. 1861.

Incorporated Law Society.—Calendar for the year 1881.

John Williams, Esq., M.D., Melbourne.—Abdominal pulsation.

Coimbra University.—Annuario. 1880-81.

Rev. David Macrae, Dundee.—George Harrington. 1878.—Dunvarlich. 1875.—Little Tiz, and other stories.—Book of blunders.—Diogenes among the D.D.'s. 1879.—Faggots. 1876.—Church standards. 1877.—Notes about Gourock, chiefly historical. 1880.

J. M. Campbell, Esq.—On the occurrence of the white-beaked dolphin on the

east coast of Scotland.

Lords of the Admiralty.—Statistical report of the health of the Navy for 1879. Harvard University.—Annual reports. 1879-80.—Library Bulletin, Nos. 15-17. Robert L. Galloway, Esq.—The steam engine and its inventors. 1881. Wardle, The wild silks of India. 1880.

William Paterson, Edin. -Catalogue of books on sale by William Paterson. 1881.

Trustees of the Mason Science College, Birmingham.-Calendar for the Session 1880-81.

The Director of the Geological Survey of Canada.—Report of Progress for 1878-9.

Royal College of Physicians, London.—List of the fellows, members, and licentiates. 1881.

John Inglis, Missionary, New Hebrides. -The Old and New Testaments, in the language of the Aneityumese. 3 vols.—Pilgrim's Progress. Part I. And the Shorter Catechism. In Aneityumese. 1880.

Royal Geological Society of Ireland. - Journal. XV., 3. 1879-80.

Bernard Quaritch, Esq., London.—General Catalogue of books for 1880. St. John V. Day, Esq., C.E.—Prehistoric use of iron and steel. 1877.

Rev. Robert Walter Stewart, D.D., Leghorn.—Comentario esegetico pratico del Nuovo Testamento. I. Parte 3a. 1880.

James Mitchell, Esq., LL.D.—Ross, History of Corea.—Ross, The Manchus.

Physical Society of London.—Proceedings. III., 4, IV., 1.

Berwickshire Naturalists' Club.—Proceedings. IX., 1.

Rev. John Gemmel, A.M., Fairlie.-The Tiberiad; or the art of Hebrew punctuation, 1880.

Trustees of the late Dr. James Henry.—Aeneidea. II., 3. 1879.
Royal Irish Academy.—Transactions. XXVI. Science. Part 22.—Irish manuscript series. I., 1.—Cunningham Memoirs. No. 1. 1880.—Proceedings. Science. Vol. III., Ser. II., No. 4. Literature and Antiquities. Vol. II., Ser. II., No. 1.

Professor Buchanan, M.D.—History of Glasgow Royal Infirmary from 1787 to 1832.—The radical cure of hernia in the child. 1879.—Lithotrity, and

statistics of lithotrity. 1880. Clinical Society, London.—Transactions. XIII. 1880.

Thomas Radford, Esq., M.D., Manchester.—Observations on the Cæsarean section, craniotomy, etc. 1880.

Henry Chichester Hart, Esq., B.A.—On the botany of the British polar expedition of 1875-6.

Thomas Kerslake, Esq., Bristol.—The word "Metropolis," the word "Anglo-Saxon," etc.

Glasgow Unemployed Relief Fund.—Report. 1879-80.

John Syer Bristowe, Esq., M.D.—Treatise on the theory and practice of medicine. 3rd edition. 1880.

Newcastle-upon-Tyne Public Libraries .- Catalogues of the books in the lend-

ing departments. 1880.

Hvilostunder.—Ofversattningsförsök af en dilettant. 1878.

Henry Dyer, Esq., B.Sc., Principal of the Imperial College of Engineering, Tokei.—The education of engineers. 1879.—Calendar. 1880-81.

Baird Trustees. - Matheson, Natural elements of revealed theology. 1881.

Müller, On spelling. 1878. Chemical Society.—Journal. Nos. 208-219. Journals of the House of Lords. 1879. Journals of the House of Commons. 1879.

Registrar-General for Scotland.—Monthly and quarterly returns. 1880.

Registrar-General for Ireland .- Weekly returns of births and deaths in 1880.

Royal Scottish Academy.—Annual report.

Acts of Parliament. 1880. Public, Local, and Private.

#### DIVINITY HALL LIBRARY.

This Library is set apart for the special use of students in Divinity. It contains an extensive collection of Theological works. It is supported chiefly by an annual grant from the Senate of Seven Shillings for each student attending the Divinity classes.

The Librarian is elected annually by the students attending the Hall.

#### HUNTERIAN MUSEUM.

This Museum, one of the most interesting possessions of the Senate, was founded by the eminent William Hunter, M.D., who was born in 1718 at Cantieswell or at Long Calderwood, in the Parish of East Kilbride, Lanarkshire. By his will, dated 1783, he bequeathed to the Principal and Professors of the College, and their successors in office, his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens, and archæological relics, and appropriated £8,000 for the erection of a building for their reception and preservation.

The building erected in 1804 became the property of the Union Railway Company, as explained at page 22. But accommodation has been provided for the collections in the new buildings at Gilmorehill. The Museum occupies the north side of the eastern quadrangle, and consists of two halls, the upper of which is galleried. Visitors desirous of consulting in the Museum should, if possible, arrange to come between 2 and 4 p.m. Numismatists desirous of consulting the cabinet of medals should communicate with the Keeper a few days before the date

of their proposed visit.

The Museum is now open to the public from 11 to 3 in winter, 11 to 4 in summer; admission sixpence. A catalogue of the pictures and other works of art in the University may be purchased from Mr. MacLehose, 61 St. Vincent Street, or at the Museum. Catalogues of the Library, Medals, and Minerals are in course of preparation.

The Keeper of the Museum, by present custom the Professor of Natural History, is appointed by the Trustees, who, in terms of Dr. Hunter's will, are the Principal and Professors of the

College.

The revenue derived from the admission fee has been hitherto the only fund available for the maintenance and extension of the collection. Donors of specimens are entitled to free admission. Each matriculated student has the privilege of introducing two friends once during the session.

Important donations have been received during the past year from the late Mr. E. R. Alston, Mrs. Charles Randolph, Mr.

Alexander Henderson, Sir J. D. Hooker, C. Heath Wilson, Esq., Professors J. H. Balfour and A. Dickson, and Mr. T. Annan, Sauchiehall Street.

#### BOTANIC GARDEN.

A piece of ground adjoining the old College was for many years set apart as a Botanic Garden, for the use of the Lecturer on Botany; but the great increase of manufactories and other buildings in its vicinity having rendered it unfit for such a purpose, the University, in 1817, agreed to subscribe £2,000 towards the formation of a new Botanic Garden then projected by the citizens of Glasgow, on condition that a Lecture-room should be erected within it for the exclusive use of the Professor of Botany and his pupils—that every facility should be given them in prosecuting the study of Botany-and that three Directors of the Institution should be annually appointed by the Faculty of the College, to represent and protect the interests of the University. The Garden to which this agreement referred was completed and opened to the public in 1819. A Lecture-room, in which the Professor of Botany delivered an annual course of Lectures during the summer months, was built; and the collection of plants, from the zeal and ability of the Superintendent, and the favourable situation of Glasgow. had become one of the richest and most valuable in the island. The extension of the town again compelled the removal of the Garden to its present site in Hillhead, at a greater distance from the old College, so that the Professor, while he continued to give in it the practical portions of the course (Demonstrations), found it more convenient to deliver his Lectures at the College. The removal of the College to Gilmorehill brought it nearer the Botanic Garden, but the Lecture-room in the Garden being inadequate for the students attending the Lectures on Botany, and there being no Laboratory, Museum, or Herbarium room in the Garden, the Professor has continued, though at great inconvenience, to deliver Lectures and to have his Laboratory at the College. It is desirable that the accommodation in the Botanic Garden be increased so that the systematic lectures as well as the practical demonstrations may be given in the Garden, that the Botanical Laboratory be established there also, and that the Herbarium and Museum be lodged alongside of the Lecture-room.

# IV.—GRADUATION IN THE SEVERAL FACULTIES.

#### EXAMINERS FOR DEGREES.

#### DEGREE IN ARTS.

The Examiners for the Degree of Master of Arts, without Honours, are the Professors whose classes are embraced in the prescribed course of study, and in addition, Three Persons, not being Professors or Assistant-Professors in any Scottish University, appointed by the University Court, and in the appointment of whom regard is had to their eminence in Classical Literature, Mental Philosophy, and Mathematical Science.

The Examiners appointed by the University Court are appointed for a term of three years, but the appointment of any Examiner, during the currency of his term of office, to a Professorship or Assistant-Professorship in any Scottish University, is held to vacate his office of Examiner; and in the event of a vacancy in the office of Examiner occurring otherwise than by the expiration of his term of office, the Examiner appointed by the University Court, in his room, is appointed for the remainder of such term only.

No person who has been appointed to the office of Examiner for the period of Three years, is eligible for re-appointment to the office of Examiner in the same University, until he has ceased to hold the office of Examiner in such University for not less than one year.

The Examiners for Graduation with Honours are the same Professors and additional Examiners as for Graduation without Honours; in the examination of candidates for Honours in the Department of Natural Science, there are added the Professors of Natural History, Chemistry, and Botany; and the University Court may, if they think fit, appoint an additional Examiner, skilled in Natural Science, not being a Professor or Assistant-Professor in any Scottish University.

No person is appointed an Examiner who is not a member of the

General Council of one or other of the Scottish Universities.

#### DEGREES IN SCIENCE.

The Examiners for Degrees in Science in those subjects not included in the curriculum for M.A., are the Professors in the several departments.

#### DEGREES IN MEDICINE.

The Medical Examiners for Graduation in Medicine are the Professors in the Faculty of Medicine (including the Professor of Natural History), and, in addition, not fewer than six persons, appointed by the University Court, who are selected from among the Fellows of the three following bodies, namely: the Royal College of Physicians of Edinburgh, the Royal College of Surgeons of Edinburgh, and the Faculty of Physicians and Surgeons of Glasgow, or persons otherwise fully qualified in the judgment of the University Court.

The examinations in extra-professional education are conducted under the superintendence of the Examiners in Arts (who may be

Professors), together with some of the Medical Examiners.

#### DEGREES IN LAW.

The Examiners for the Degree of Bachelor of Laws are the Professors in the Faculty of Law and three additional Examiners appointed by the University Court, who are Professors in the Faculty of Law in a Scottish University, or who have obtained the Degree of Bachelor of Laws in accordance with the provisions of Ordinance of the Universities Commissioners, No. 75.

The Examiners for the Degree of Bachelor of Law are the Professors in the Faculty of Law, together with two additional Examiners appointed by the University Court from among Graduates of Law of any of the Universities of Scotland. Each of such additional Ex-

aminers holds office for the term of three years.

#### DEGREES IN DIVINITY.

The Examiners for the Degree of Bachelor of Divinity are the Members of the Divinity Faculty.

#### REGULATIONS FOR GRANTING DEGREES.

#### I.-GRADUATION IN ARTS.

I. The Course of Study necessary for the Degree of Master of Arts extends over four Winter Sessions, and includes attendance for not less than two sessions on the classes of Humanity, Greek, and Mathematics respectively, and attendance for not less than one session on the classes of Logic, Moral Philosophy, and Natural Philosophy respectively, and also attendance on a course of English Literature; but any student who at the time of his entrance to the University, shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the

higher classes of Latin, Greek, and Mathematics, or any of them, is admitted to such higher class or classes, without having previously attended the first or junior class or classes in the same department or departments; and in the case of students who are, after such examination, admitted to the higher Greek and Latin classes, the course of study for the Degree of Master of Arts may be completed within three winter sessions instead of four.\*

The attention of students about to pursue the course of study for the Degree of Master of Arts is called to the following regulations, adopted by the Senate, which will apply to students commencing in Session

1875-76 (or thereafter) the course of study for the Degree:-

1. Attendance on the qualifying course of Natural Philosophy for the Degree of M.A. shall be subsequent to the completion of the qualifying course of Mathematics.

2. Two sessions of the lowest class of Humanity, or Greek, or Mathematics, do not constitute two sessions of one of these classes, within the

meaning of ordinance No. 14.

3. A student found qualified at the preliminary examination to attend the senior class of Humanity, or Greek, or Mathematics, must attend such senior class in order to qualify for the Degree without more than one session's attendance on such class.

It is strongly recommended that students prepare themselves to attend the upper division of the junior class of Mathematics in the first

or second session of their course of study for the Degree.

4. In session 1879-80, and thereafter, to qualify for the Arts Degree, the Logic Class and the Moral Philosophy Class must be attended in separate sessions, the Logic Class being taken first.

II. In pursuing the course of study for the Degree of Master of Arts, no student is permitted to pass from the junior to a higher class in any department, unless the Professor is satisfied of his fitness to enter the

higher class

III. Any student who has completed the required attendance on the Latin and Greek classes, may be examined on those subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course; and, in like manner, any student who has completed the required attendance on the classes of Logic and Moral Philosophy, and course of English Literature, may be examined on these subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course; and, in like manner, any student who has completed the required attendance on the classes of Mathematics and Natural Philosophy, may be examined on these subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course; and, if such student shall satisfy the Examiners, when so examined in Latin and Greek, or in Logic, Moral Philosophy, and English Literature, or in Mathematics and Natural Philosophy, he is entitled to receive from them a certificate to that effect, and he is not again examined on the same subjects, as a condition of his taking the Degree of Master of Arts.

<sup>\*</sup> For the details of this Preliminary Examination, see p. 94

IV. Students who have passed satisfactorily an examination or examinations on the several subjects embraced in the prescribed course of study, are entitled forthwith to receive the Degree of Master of Arts without Honours; but they may, before taking a Degree, offer themselves for a farther examination, with a view to Graduation with Honours; provided always, that any student who desires to offer himself for examination, with a view to Graduation with Honours, in any one or more departments, may proceed to such examination without having previously passed the examination in such department or departments for the Degree of Master of Arts without Honours; and if such student, in the opinion of the Examiners, fails to attain the standard for Honours in any department, but attains to the standard of the examination for Graduation without Honours, he shall be held to have passed in that department for the Degree of Master of Arts without Honours; but if in any such department he fails to attain to the standard of the examination for Graduation without Honours, he shall not be entitled, until he shall have passed in that department, to the Degree of Master of Arts: \* Provided also, that no person shall be admitted to examination for Honours after he has ceased to be a matriculated student in attendance on a class or classes in the University for more than one winter session, unless he has been prevented from offering himself by ill-health, or other sufficient cause. +

V. There are four departments, in any one or more of which candidates for Graduation with Honours may offer themselves for examination, viz.:—(1) Classical Literature; (2) Mental Philosophy, including Logic, Metaphysics, and Moral Philosophy; (3) Mathematics, including pure Mathematics and Natural Philosophy; and (4) Natural Science,

including Botany, Geology, Zoology, and Chemistry.

VI. In each of the first three of the above-mentioned departments—viz., in Classical Literature, in Mental Philosophy, and in Mathematics—there are two grades of honour, denominated respectively the First Class and the Second Class; but in the department of Natural Science there is one class of Honours only; and the names of the candidates entitled to honours in each class, in the several departments, are arranged, when publicly announced, in alphabetical order.

VII. It is in the power of any student, who has given attendance during one or more sessions on the course of study in any other Scottish University, to complete his course of study, and proceed to the Degree

\* The above change in the ordinance regulating the examination for Graduation with Honours was approved by Her Majesty in Council, June 4th, 1870. By minute of Senate, of date Nov. 27, 1873, with reference to this change in the ordinance, a student is allowed to go in for honours in any department, whether or not he has completed his curriculum, provided that he has sufficiently attended the classes in the department in which he offers himself; but no certificate of passing with Honours is given till the Degree is conferred.

† By minute of date 28th November, 1872, the Senate resolved that the power conferred on them of dispensing with the above regulation "will not be exercised except in the case of the applicant having been precluded from attendance by ill-health, or very peculiar circumstances, quite beyond the applicant's control; attendance at another University not to be considered such."

of M.A. in this University: Provided always, that every such student shall produce, to the satisfaction of the Senatus Academicus of this University, testimonials of his attendance at the former University, and shall be examined in all the departments necessary for the Degree of Master of Arts by the Examiners of this University: Provided also, that no student shall be admitted to a Degree in this University, unless he has given attendance in this University during the last two sessions of

VIII. The Degree of Master of Arts is in no case conferred, except on persons who have complied with the conditions hereinbefore set forth.

and is in no case conferred honoris causa tantum.

IX. Every student who, previous to the commencement of session 1861-62, had completed a part of his course with a view to Graduation in Arts, under regulations in force at the time, and who shall hereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Master of Arts without complying with the present regulations, so far as they relate to the course of study for that Degree, provided he pass the examination or examinations required by the present regulations.

X. Each candidate for the Degree of Master of Arts is required to pay a Fee of One Guinea in respect of each of the three departments of the examination for Graduation without Honours; each such Fee of One Guinea being payable at the time at which the candidate comes forward to be examined in that department in respect of which it is payable; and no further Fee than the sum of Three Guineas is payable by any candidate in respect of examination for, or admission to, the said Degree,

whether with or without Honours.

XI. The Examinations for the Degree of Master of Arts are held in April and November (in 1881-82, commencing October 29th and April 15th); and the graduation takes place in the beginning of May, and in Applications for examination must be lodged with the Assistant Clerk of Senate on 1st October, 1881, and 10th March, 1882. The subjects of examination are set forth in the accompanying table.

# TABLE OF SUBJECTS OF EXAMINATION FOR THE DEGREE OF MASTER OF ARTS, ACCORDING THE DIFFERENT CLASSES OF DISTINCTION WHICH CANDIDATES MAY HAVE IN VIEW.

EN C	FOR ORDINARY DEGREE.	FOR HONOURS.
	For November, 1881. VIRGIL, Book IX. HORLER, Odes, Book IY.; Epistles, Book I. TAGTES, Ameds, Book IV.; Epistles, Book I. With Translations from English into Latin, and Questions on Grammar, History, and	Versal, the whole. Horace, the whole. Ad any one of the three following:  Verse. 2. Juyeral, the whole, with the exception of Satires II, VI, IX. 3. CATULUS.
LATIN	Moderate Proficiency in Latin Prose Composition is required.  For April and November, 1882. VIRGIL, Ebreid, Book XI. Epistles, Book I. HORAGE, Odes, Book IV; Epistles, Book I. With Translations and Obsertions of Province	Cuesto, the Philippi Ontaions, or any other Orations PROSE.  LIVY, any five consecutive hooks.  LIVY, Annals, Books I-V.  With Latin Composition, History, and Antiquities, &c. Passages also from Books not prescribed will be set.  Candidates may profess any extra books they please.
	November, 1881.  Homer, Iliad or Odyssey; any continuous portion of not less than 750 lines.  Soprocuse Trachinide.  Heromoris Rook VIII.	November, 1881: A pril and November, 1882.  (Hoare, Odyssey, Books I-XII.  Any two of the following:  I. Arschylus, Agamemnon and Eumenides.  2. Sophotoxis, Oedipus Tyrannus, Oedipus Coloners.  R. Purirribus, Phoenissae, Philipenia in Aulide, Thurymprs, Books III. IV. V. V. T.
GREEK	Questions on Greek Grammar, Literature, History, and Antiquities.  HOMER, as above. Sopnocles, Antique. HERDOUGHS, Book VI. Onestions as above.	PROSE.  PROSE.  Or—  2. Anisron. Politics, Books I, III, III, or IV, V, VI (is numbered in Bekker's text), or Rhetoric, Books I & III, III, or Rhetoric, Books I & III, III, or Rhetoric, Books I & III.  Greek Composition. Questions in Greek Grammar, Literature, History, and Antiquities.
		Candidates will be required to show a thorough acquaintance with the subject matter, as well as with the ract, of the Books. Candidates for Second Class Honours only may profess an amount equivalent to at least one-lady of each of the authors, Greek or Laffin, prescribed above.

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FOR HONOURS.	In addition, the Thesetetus: Descartes, the Method, Meditations and Principles of Philosophy, English Translation, new edition with Introduction, 1879; Berkeley, Prof. Fraser's Selections from Berkeley, 2nd edition, 1879; Berkeley, Prof. Fraser's Selection of the English Concerning Human Understanding: I and III: Hume, Enquiry Concerning Human Understanding: Lon's Notes and Supplementary Dissertations, Notes A (Common Sense), B (Presentative and Representative Knowledge), C (External Perception), D (Qualities of Body), D * (Association). Hamilton's biscussions (Lorge, Perception), Cousin and Philosophical Appendix). Kant's Critique of the Pure Reason. The General Principles and Methods of Fichte, Schelling, Hegel: Thomson's Outline of the Laws of Thought; Mill's Logic, Books III and IV. Hamilton's Lectures on Logic Questions on the History of Philosophy—Reference to Ueberweg.	Candidates for Honours will be examined on the History of Ancient and Modem Philosophy, as well as on Moral and Political Philosophy. They are required to show accurate Knowledge of the following books:—(1) Plato's Republic; (2) Aristotle's Ethics; (3.) Kaut's Critiques of Pure and Practical Reason.  They are also recommended to study such works as Spinoza's Ethics, Hegel, as translated and illustrated by Dr. Stirling and Mr. Wallace, Maine's Ancient Law, Green's Hume, Bradley's Ethical Studies, and Sidgwick's Methods of Ethics; but they will not be specially examined on these books.		Second Class.—In addition, Euclid XI, 1 to 21; Higher Algebra; Plane and elements of Spherical Trigonometry, Analytical Plane Geometry, and Differential and Integral Calculus so far as treated in the Senior Mathematical Class. First Class.—In addition, Solid Geometry, Differential and Integral Calculus, and Differential Equations.
FOR ORDINARY DEGREE.	The Professor's Lectures, and Whately's Logic, Books 2 and 3.	The subjects discussed in the Professor's Lectures; see page 45.	Lectures of the Professor.	Euclid, First Six Books. Algebra, including Quadratic Equations, Progressions, and Binomial Theorem for Positive Integers. Plane Trigonometry, as far as the Solution of Trianglos by the aid of Logarithmic tables.
IN	Logio	МОБАL	ENGLISH	MATHEMATICS

Second Clars.—Thomson and Tait's Elementary Treatise on Natural Philosophy; Maxwell or Balfour Stewart on Heat; Donkin on Sound; Central Forces.  The subject of special course on Mathematical Physics for session of attendance.  Pertical Papers to be professed. Portions of Thomson's Electrical Papers to be professed. Portions and Tait's Natural Addition, Portions of Thomson and Tait's Natural Philosophy (large work) to be professed; also, either Pourier's Theorie Analytique de la Chaleur, or the Mathematical Heory of one of the following subjects, Electricity, Magnetism, Light, Sound, Elasticity of Solids.  For undulatory Theory of Light, Jamin, Cours de Phys, Vol. III, Part II, and Airy recommended.	Morphology, Physiology, and British Natural Orders.	General Principles. Physical Chemistry. Text-Books recommended—Miller's Elements, 3 vols.; Roscoe and Schorlemmer's Treatise; Schorlemmer's Carbon Compounds; Armstrong's Organic Chemistry.	Green's Geology, vol. I., with Lyell's Student's Manual; Dana's Manual of Geology; Young's Physical Geography.	Huxley's Manuals of the Invertebrata and Vertebrata. Macalister's Animal Morphology. Mivart's Comparative Anatomy.
Examination on the Subjects explained in the Class. On the Elements of Staties and Dynamics, with the solution of problems not requiring the Differential or Integral Calculus; Experimental Sieme, including Sound, light, Heat, Electricity, and Magnetism; Galbraith and Haughton's Astronomy; Thonson's Lecture on Navigation; Thomson and Tait's Outlines of Dynamics.				
NATURAL РНІСОЅОРНÝ	BOTANY	CHEMISTRY	GEOLOGY	ZOOLOGY

N.B.—Candidates may be examined in the last four subjects by the aid of Specimens.

#### CERTIFICATE OF LITERATE IN ARTS.

In 1880 the University Court, after communication with the Senate and the General Council, and with the sanction of the Chancellor, instituted a certificate conferring the title of "Literate in Arts."

The following are the Regulations for granting this certificate:-

- 1. The Certificate of Literate in Arts is open to all persons who have been public students in the Faculty of Arts for not less than two Sessions, and who during that time have given attendance at not less than five of the classes included in the course of study for the M.A. Degree.
- 2. No student is permitted, with a view to the Certificate of Literate in Arts, to reckon attendance on more than two of the classes included in any one of the three departments of the Arts course, i.e., Classical Literature, Mental Philosophy, and Mathematics.
- 3. The examination for the Certificate may be taken at one, two, or three periods, at the option of the candidate, and either in April or October; but in no case can the examinations included in any one department be separated from each other. Candidates presenting more than one subject included in one department must pass in both at the same time.
- 4. The examinations and standard of proficiency required for the said certificate are, in respect of the classes attended, the same as those demanded in the subjects belonging to the same classes for the M.A. Degree; and the examination papers will be the same as those set in the corresponding subjects for that Degree.
- 5. When all the subjects are taken at one examination the fee is £2, 2s.; when the examination is divided, the fee is £1, 1s. for the examination in the department first taken, and £1, 1s. for that taken next; but no fee paid with a view to the said Certificate shall be accepted as pro tanto payment towards the fee exigible for the M.A. Degree.
- 6. Not less than three of the five classes constituting the attendance required for the Certificate, and in all cases the last year of the course, must have been taken in the University of Glasgow. All the examinations must be passed in this University.
- 7. The Certificate of Literate in Arts is not open to students whose qualifications for the Certificate are entirely of a date anterior to April, 1880.

Subjects of Examination for the Certificate of Literate in Arts.

In Latin.—For November, 1881. Virgil, Eneid, Book IX. Horace, Odes, Book IV; Epistles, Book I. Tacitus, Annals, Book IV.

With translations from English into Latin, and questions on Grammar, History, and Antiquities.\* Moderate proficiency in Latin prose Composition is required. For April and November, 1882.—Virgil, Encid, Book XI. Horace, Odes, Book IV; Epistles, Book I. Tacitus, Annals, Books V, VI. With translations and questions as above.

In GREEK.—For November, 1881. Homer, Iliad or Odyssey; any continuous portion of not less than 750 lines. Sophocles, Trachiniae. Herodotus, Book VIII. Questions on Greek Grammar, Literature, History, and Antiquities. For April and November, 1882.—Homer, as above. Sophocles, Antigone. Herodotus, Book VI. Questions as above.

In Logic,—The Professor's Lectures, and Whately's Logic, Books II. and III.

In Moral Philosophy.—The subjects discussed in the Professor's Lectures; see page 45.

In English Literature.—Lectures of the Professor.

In MATHEMATICS.—Euclid, First Six Books. Algebra, including Quadratic Equations, Progressions, and Binomial Theorem for Positive Integers. Plane Trigonometry, as far as the Solution of Triangles by the aid of Logarithmic tables.

In Natural Philosophy.—Examination on the subjects explained in the class. On the Elements of Statics and Dynamics, with the solution of problems not requiring the Differential or Integral Calculus; Experimental Science, including Sound, Light, Heat, Electricity, and Magnetism; Galbraith and Haughton's Astronomy; Thomson's Lecture on Navigation; Thomson and Tait's Outlines of Dynamics.

#### PRELIMINARY EXAMINATIONS IN ARTS.

The subjects of the Preliminary Examinations in the different departments are as follows:—

Latin and Greek.

Easy passages to translate from Latin and Greek Authors. Translation from English into Latin. Simple questions in Grammar and History.

Mathematics.

First Six Books of Euclid. Plane Trigonometry. Algebra, including Quadratic Equations.

<sup>\*</sup> Notice.—Candidates must bear in mind that a knowledge of the matter of the Historical Books they profess is as indispensable as a knowledge of the text.

[The Preliminary Examination in Latin, Greek, and Mathematics will be combined with the Examination for the Competition Bursaries.

The attention of students is called specially to the following points :--

1. The Preliminary Examinations are in every case voluntary. 2. No student can offer himself for a Preliminary Examination

except when entering the University for the first time.

3. A student who passes the Preliminary Examinations in Greek and Latin may complete the course of study required for the Degree

of Master of Arts in three sessions.

4. A student who passes the Preliminary Examination, in one or more departments, is entitled to enter the senior class or classes in the department or departments in which he passes, and may qualify himself for Graduation in Arts by attending such senior class or classes for one session, without attending the junior class or classes in the department or departments in which he passes.

Names of candidates to be given in to the Assistant Clerk of

Senate not later than October 21st.

At the Preliminary Examination held at the beginning of Session 1880-81, the following candidates passed:—

IN LATIN. - George Andrew (High School, Glasgow); Archibald W. Bain (Greenock Academy); Archibald W. Blair (Albany Academy, Glasgow); Peter C. Bryce (Burgh Academy, Dumbarton); James Cameron (Elgin Street Academy, and Hutchesons' Grammar School, Glasgow); David Cameron (Netherleigh House, Chester, and Birkenhead School); Dugald M. Clark (Glasgow Academy); Norman Fraser (Springfield Academy, Shawlands, and Hutchesons' Grammar School, Glasgow); Charles C. Grant (High School, Glasgow); James Gray (F. C. School, Stonehouse); Thomas Hannan (St. Mary's Episcopal School, and Church of Scotland Training College, Glasgow); William Hay (Burgh Academy, Dumbarton); James F. Johnstone (Thorne School, Johnstone, and Grammar School, Paisley); John M.C. Johnston (Burgh Academy, Dumbarton); Bremner Patrick Lee (Fettes College, Edinburgh); William B. Leishman (Westminster School, London); Peter MacClure (Glasgow Academy); James M'Donald (private study); William M'Gill (High School, Glasgow); William M. Mackay (High School, Glasgow); David A. M'Nab (Rothesay Academy, and Watson's College, Edinburgh); Archibald J. M'Nicol (F. C. School, Dunoon, and High School, Glasgow); William J. Mitchell (High School, Glasgow); Robert Morris (Langside Academy, and High School, Glasgow); William Rees (Science and Art Classes, and Athenaeum School, Llanelly); Duncan A. C. Reid (Loretto School); James Scott (Highland Society's Schools, Glasgow); John Sharpe (High School, and Hutchesons' Grammar School, Glasgow); Andrew M. Smith (Cumnock F. C. School, and Ayr Academy); Robert L. Stark (Mr. Stark's School, Hillhead); William Stewart (private study); Robert M. Stewart (High School, Glasgow); James Strachan (E. C. Normal School, Glasgow); William Struthers (High School, and Hutchesons' Grammar School, Glasgow); Robert Tarbet (Mair's Free School, and Public School, Darvel); William Taylor (Muthill Public School); Alexander Whyte (Hutchesons' Grammar School, Glasgow); David Wilson (Hutchesons' Grammar School, Glasgow); James Wilson (Fettes College, Edinburgh); Walter Wingate (Hutchesons' Grammar School, Glasgow); Robert A. Young (Glasgow Academy).

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IN GREEK.—Peter C. Bryce; James Cameron; David Cameron; Norman Fraser; Charles C. Grant; William Hay; James F. Johnstone; Peter MacClure; William M'Gill; Hugh M'Intyre (Hutchesons' Grammar School, Glasgow); William M. Mackay; Robert Morris; Alexander Mowat (private tuition); William Rees; Duncan A. C. Reid; John Sharpe; Andrew M. Smith; William Stewart; Robert M. Stewart; James Strachan; William Struthers; Alexander Whyte; David Wilson; Walter Wingate; Robert A. Young; Harry Younger (Glasgow Academy).

IN MATHEMATICS.—Peter C. Bryce; James Cameron; John Duncan (Falkirk Parish School); Norman Fraser; William Hay; Basil Jackson (Hutchesons' Grammar School, Glasgow); William M'Gill; Hugh M'Intyre; Archibald J. M'Nicol; William J. Mitchell; Robert Morris; John Nicholson (Government Real School, Warsaw); William Rees; James Strachan; William Struthers; Alexander Whyte; David Wilson; Walter Wingate; Robert A. Young.

#### 2.-GRADUATION IN SCIENCE.

#### Bachelor of Science.

The Senate, with the approval of the University Court, have instituted the Degree of Bachelor of Science, with three alternative courses of study. The courses of study in the several departments are as follows:—

# A. In Biological Science—Any four of these five :-

- 1. Chemistry.
- 2. Anatomy.
- 3. Physiology.
- 4. Zoology (including Comparative Anatomy).
- 5. Botany.

And four of the classes in the Arts Curriculum.\*

# B. In Geological Science:—

- 1. Geology.
- 2. Chemistry.
- 3. Zoology (including Comparative Anatomy).

4. Natural Philosophy.

And any four of the classes in the Arts Curriculum: provided always that, in the event of a student taking Geodesy in conjunction with any University class of not less than twenty-five lectures, he shall be allowed to dispense with one of the Arts classes.

# C. IN ENGINEERING SCIENCE:-

- 1. Mathematics (1 or 2 ses., according to proficiency displayed).
- 2. Natural Philosophy (1 or 2 do. do.

<sup>\*</sup>i.e., Attendance for the session on any four of the following seven classes—viz., Latin, Greek, Logic, Moral Philosophy, English Literature, Mathematics, Natural Philosophy.

3. Inorganic Chemistry (1).

4. Geology (1).

5. Civil Engineering (2).

And any two of the classes in the Arts Curriculum except Mathematics and Natural Philosophy: provided always that in the event of a student taking Geodesy in conjunction with the Practical course in Civil Engineering, or any other University class of not less than twenty-five lectures, he shall be allowed to dispense with one of the Arts classes.

#### The following are the General Regulations for the Degree of Bachelor of Science.

- 1. The examinations in those subjects which are taken from the Curriculum of Arts shall be the same, and subject to the same regulations, as the examination in those subjects for the Degree of M.A.
- 2. No student shall present himself for examination in any subject without having attended a class on that subject in a University; but students may present themselves for examination in any one or more of the subjects so soon as they have attended the requisite classes. No student shall be admitted to a Degree in Science unless he shall have given attendance in this University during the last two sessions of his course, nor unless he has attended the half at least of his course in this University.
- 3. No special certificate shall be given to students who have passed examinations in subjects for the Degree in Science, but a certified list of successful candidates shall be published after each examination, and shall be copied into a book kept for the purpose by the Assistant-Clerk of Senate. Both copies of the list shall be signed by the examiners.
- 4. The fee for the Degree in Science shall be £3, 3s., it being provided that if any candidate shall present himself for examination in the different subjects at different periods, he shall pay £1, 1s. in each session in which he is examined, till he has paid £3, 3s.
- 5. Students who commenced their course for a certificate in Engineering Science before session 1871-72, may be granted a Degree on Examination in all the appointed subjects, without attendance on any class but those requisite for the Certificate in Engineering Science.
- 6. Examinations for the Degree of M.A. will not be held as available for the Degree of B.Sc., unless passed by the student as a candidate for that Degree; but examinations for the Degree of M.A. passed previously to 1st January, 1874, will be accepted for the Degree of B.Sc., on the candidate paying the fees for examination for that degree, over and above any fees he may have paid as a candidate for the Degree of M.A.

- 7. Honours in the subjects taken from the Faculty of Arts shall be given to graduates in Science only on the same curriculum and examination as to graduates in Arts.
- A. In session 1881-82 the subjects of Examination in the department of Biological Science shall be as follows:—

In Chemistry.—General principles of Organic Chemistry; classification of organic substances, and Chemistry of Blood, Bile, and Urine.

In Anatomy.—Descriptive Anatomy and Histology.

In Physiology.—A general knowledge of the subject as treated, e.g., in M'Kendrick's Outlines of Physiology, and special knowledge of some part of the subject to be announced from time to time in the Calendar. The special subject for next year to be the functions of the Nervous System and of the Senses. Candidates will also be subjected to a practical examination, in the Laboratory, on Histology, the Chemistry of Physiological processes, and the use of Physiological apparatus.

In Zoology and Comparative Anatomy.—A general knowledge of the principles of Zoological Classification, with a more detailed knowledge of certain parts of the subject to be announced from time to time. The special subjects for next year to be—the comparative Anatomy of the Digestive System; the Coelenterata, Sponges, Polyzoa, Amphibia. The examination will be in part practical.

In Botany.—Morphology, Physiology, and Systematic Botany; the last restricted to the general principles of classification, and to British Natural Orders. The candidate may be asked to describe plants set before him, and refer them to their proper places in the Vegetable Kingdom.

B. The subjects of examination in the department of Geological Science shall be as follows:—

In Geology.—Lithology and Stratigraphy; Palæontology, and the conditions on which climatal changes depend. As special subjects for next year:—The features of the earth's surface and their origin; the composition and origin of Coal and Ironstone; Marine Currents; the phenomena of the Triassic and Glacial Epochs; Secular changes of Climate. (For text-books, see p. 93.)

In Chemistry.—The general principles of the Science, including the preparation, properties, and chief compounds of the common non-metallic and metallic elements; and in special the Chemistry of Rock formations and Mineralogy.

In Zoology.—Principles of Classification, and a more detailed knowledge of certain parts of the subject, to be announced from time to time. The special subjects for next year to be—Climatal influence on the distribution of animals; the anatomy and physiology of Corals and Graptolites.

Candidates will be examined in these three subjects by the aid of specimens.

In Natural Philosophy.—Students will be required to show proficiency equal to that which is required for the degree of M.A. The Departmental Certificate in Mathematics for the degree of M.A. frees the candidate from this part of the examination, but he must pay the additional fee.

C. The subjects in the Department of Engineering Science shall be as follows:—

In Mathematics.—The Subjects of Examination for Second Class Honours for the Degree in Arts.

In Natural Philosophy.—Thomson and Tait's Elementary Treatise on Natural Philosophy; portions of Maxwell or Balfour Stewart on Heat; Central Forces. Candidates may profess higher subjects.

In Chemistry.—The general principles of the Science, including the preparation, properties, and chief compounds of the common non-metallic and metallic elements, and in special the metallurgy of Iron, Copper, Lead, Tin, and Zinc; the Chemistry of building materials, and of water and atmospheric air.

In Geology.—Lithology, Stratigraphy; Coal Mining and Geological Surveying. Besides the text-books mentioned at p. 93, Smyth's Coal Mining; Spon's Well-boring and Sinking.

In Civil Engineering.—The subjects mentioned in the Calendar at pp. 51 and 52, for the two courses of the Professor of Engineering.

In Geodesy.—Theory of Geodesical Instruments; Methods of determining Local Time; Longitudes, Latitudes and Azimuths; Measurement of Base Lines; Principles of Triangulation; Measurement of Arcs of the Meridian.

The Engineering Examinations for the Degree of B.Sc. in Engineering Science may commence on or after the 24th of March in each year.

The examination in the subjects for the Degree of B.Sc. admitting of it, shall be both practical and oral as well as in

writing.

#### 3.-GRADUATION IN MEDICINE.

Three Medical Degrees are conferred by this University, viz.:
—Bachelor of Medicine (M.B.); Master in Surgery (C.M.); and Doctor of Medicine (M.D.); all of which are recognized by the Medical Act as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public

Medical Service.

The degree of Bachelor of Medicine may be obtained by Candidates of the age of 21 years who have complied with the regulations as to Education and Examination. The Degree of Master in Surgery is conferred only upon those who at the same time obtain the Bachelorship of Medicine; and the Degree of Doctor of Medicine may be conferred on Candidates of not less than 24 years of age who have obtained the Bachelorship two or more years previously, and have fulfilled certain conditions which are detailed at page 108.

Persons who began their professional studies prior to 1st October, 1861, will, on becoming Candidates for Graduation, be examined in accordance with the regulations in force at the time

of the commencement of their Medical studies.

The following rules and directions apply more immediately to the Bachelorship of Medicine, which must precede either of the other Degrees:—

A.—EXAMINATION OF MEDICAL STUDENTS IN GENERAL EDUCATION AND REGISTRATION BY THE MEDICAL COUNCIL.

The Candidate for the Bachelorship of Medicine must have been registered in the books of the General Medical Council at least four years prior to the date of his graduation. In order to be so registered he must transmit to Dr. Inglis, the Scottish Branch Registrar, 33 Albany Street, Edinburgh, together with a printed form of application (which may be obtained from Mr. Moir, the Assistant-Clerk of Senate), a certificate of having passed a satisfactory Preliminary Examination in English, Latin, Arithmetic, Euclid and Algebra, along with one optional subject, as French, or German, or Greek, or Mechanics, or Natural Philosophy.

The possession of a Degree in Arts, not being an Honorary Degree, exempts from Examination in General Education, provided that it has been conferred by a British University, or by such Foreign and Colonial Universities as shall have been

recognized by the General Medical Council.

The Examination in General Education may be passed either in this University or at any University or Board of which the examinations are recognized by the General Medical Council as entitling to registration.\* But while a Certificate of having passed

<sup>\*</sup> For a list of such Examining Boards, see p. 111.

any recognized Preliminary Examination entitles to registration in the books of the General Medical Council, the University only accepts these Examinations pro tanto, and exacts examination in every case on such subjects required by the regulations of the University as are not embraced in the certificates presented from other Examining Boards, or which, though included therein, are not of similar extent to the same subjects as prescribed by the University. In such cases this Examination required by the University must be passed by the Candidates before admission to their First Professional Examination.

This registration in the books of the Medical Council, which is imperative on Candidates for any legal qualification to practise whatsoever, is quite distinct from Matriculation or other regis-

tration of students in the books of the University.

In addition to the above-mentioned Preliminary Examination. Candidates for the Bachelorship are required to undergo, previous to their First Professional Examination (and, it is recommended. as far as possible previous to the commencement of professional study), an examination in two of the following subjects, to be selected by the Candidate, viz.: Greek, French, German, Higher Mathematics, Natural Philosophy, Logic, Moral Philosophy. Candidates are further advised to appear at as early a period as possible for examination on the subjects enjoined in Part III., p. 103.

The first duty, then, of those intending to enter the Medical profession is to prepare themselves for the Preliminary Examination in General Education; and unless in exceptional circumstances of great proficiency in the subjects of that examination. students are recommended not to enter upon professional study before the age of 17 years: the minimum professional curriculum of four years will thus occupy the period till the age of 21 years, the earliest at which a legal qualification to practise can be obtained.

The following is a more detailed notice of the subjects of the Examination in General Education referred to above :—

- I. First, or Preliminary Part.—The Candidate must pass in all the subjects of this division (see foot-note, p. 103) before Registration with the Branch Registrar of the Medical Council—
  - 1. English.—(1) Writing correctly a passage to dietation. (2) Composition of a short essay on a given theme. (3) Questions on Grammar, with analysis of sentences and the derivation and meaning of some common English words. (4) English History from 1603 to 1688. (5) Geography of the British Isles. \*
    - 2. Latin.—Translation of passages from the Second Book of the Æneid of Virgil, and Sallust de Bello Jugurthino, Chap. I.—L.

Candidates who appear in October, 1881, will not be examined in English History and Geography.

- Translation of passages from works not prescribed, and of English passages into Latin,—the principal Latin words being supplied. Questions on Grammar and construction.
- c 3. Arithmetic.—The Common Rules, including Vulgar and Decimal Fractions.
- 4. Elements of Mathematics.—The first three Books of Euclid.
   Algebra as far as Simple Equations.
- D 5. ELEMENTS OF DYNAMICS (MECHANICS) \*:—Elementary Kinematics, Statics, Kinetics, and Hydrostatics. Text-books—Bottomley's Dynamics (Collins' Series); Blaikie's Elements of Dynamics.
- II. Second Part.—The Candidate must pass in at least two of the following subjects, to be selected by himself, before he can be admitted to the First Professional Examination:—
  - 1. Greek.—Memorabilia of Xenophon, Book I., and the Gospel according to St. John. Translation of passages from works not prescribed, and of English passages into Greek—the principal Greek words being supplied. Questions on Grammar.
    - 2. French.—Montesquieu's Considerations sur les causes de la grandeur des Romains, et de leur Decadence. Translation and exercises as in the Latin and Greek.
    - 3. German.—Schiller's Maria Stuart. Translation and exercises as in the other languages.
- 4. Higher Mathematics.—Euclid, Books I. to VI.; Algebra, including Quadratic Equations, and the Rudiments of Trigonometry.
- 5. NATURAL PHILOSOPHY.—Such a knowledge of the principles of Natural Philosophy as may be obtained from Bottomley's Handbook (Collins), and Balfour Stewart's Elementary Lessons in Physics.
- F 6. Logic,—Jevons' Elementary Lessons on Logic.

К

G 7. MORAL PHILOSOPHY.—Dr. Fleming's Manual, Part I.

A certificate of having passed, at the Examinations for the Degree of M.A., or B.Sc., in English, Latin, Mathematics, Natural Philosophy, Greek, Logic, or Moral Philosophy, will be accepted instead of examination in the subjects marked A, B, C, D, E, F, G, respectively.

III.—Third Part.—The Candidate for the degree of M.D., if not a graduate in Arts, must have passed an Examination in three of the subjects enumerated above in II., Second Part, of which one must be Greek, another either Logic or Moral Philosophy, and the third is left to the option of the Candidate.

<sup>\*</sup> For the purpose of Registration, any of the subjects under II. Second Part may be substituted for Mechanics, in which case Mechanics must be passed before the First Professional Examination.

#### B .- PROFESSIONAL EDUCATION.

1. Duration and Constitution of the Curriculum.—The professional curriculum is of four years' duration; the medical session of each year or Annus Medicus being constituted by attendance on two Courses of not less than 100 Lectures each, or on one such course with two three months' courses of not less than 50 Lectures each. But in the case of the clinical courses it is sufficient that the lectures be given twice a week during the prescribed period. Of this curriculum, if not passed wholly at the University of Glasgow, two years must be constituted by attendance on courses at a University entitled to grant degrees in Medicine; and one of these years at least must be at the University of Glasgow. If the remaining years are not passed at a recognized University, attendance during at least six winter months on the Medical and Surgical Practice of a General Hospital which accommodates not fewer than 80 patients, with a Course of Practical Anatomy during the same period, may be reckoned one Annus Medicus; while another may be constituted by attendance for the requisite period on the lectures of Teachers of Medicine in the Hospital Schools of London, or in the School of the College of Surgeons, Dublin, or of such private teachers as may be recognized by the University Court with the consent of the Chancellor of the University. But attendance on lectures by such teachers is not recognized to the extent of more than four of the departments of Medical Study required for the curriculum and enumerated below.\*

Candidates who avail themselves of the permission to attend the lectures of private teachers recognized for the purpose, and who are not at the time matriculated students of the University, must, at the commencement of the year of such attendance, enrol their names in a book kept by the University for that purpose, and pay a fee of one half the amount of the matriculation fee paid by students of the University; but they are not thereby entitled to any of the privileges of matriculated students of the University. Further, those who attend the lectures of such recognized private teachers, must, if the courses are held in a University town, pay to such teachers the same fees as are paid in the University of such town. (The fee must be paid at the commencement of the course.)

2. Required Courses of Instruction.—Candidates must produce certificates of having attended courses of instruction in the following departments of Medicine, in the manner specified:—

<sup>\*</sup>In Provincial Medical Schools where there are no Lecturers recognized by the University Court, a Candidate can complete only one Annus Medicus, constituted by attendance at a General Hospital, accommodating not fewer than 80 patients, along with a course of Practical Anatomy.

ANATOMY, CHEMISTRY, INSTITUTES OF MEDICINE OF PHYSIOLOGY, MATERIA MEDICA and PHARMACY, SURGERY, PRACTICE OF MEDICINE.

MIDWIFERY and DISEASES OF WOMEN and CHILDREN.\*
Each of the above in a course of not less than 100 lectures.

BOTANY, ZOOLOGY (with COMPARATIVE ANATOMY), FORENSIC MEDICINE.

Each of the above in a course of not less than 50 lectures.

GENERAL PATHOLOGY, in a course of not less than 100 lectures; or in schools where there is no such course, PATHOLOGICAL ANATOMY, in a three months' course of lectures, with a supplemental course either of Practice of Medicine or of Clinical Medicine.

CLINICAL SURGERY, CLINICAL MEDICINE.

Each in a six months' course or in 2 three months' courses— Lectures being given at least twice a week.

PRACTICAL ANATOMY, during six months.

PRACTICAL CHEMISTRY, during three months.

PRACTICAL PHARMACY,† in a course of not less than 50 hours' instruction in a class of Practical Materia Medica in a University, or other recognized school, or conducted by a teacher recognized by the University Court, or in Compounding and Dispensing Drugs in the Laboratory of an Hospital, or Dispensary of a Registered Medical Practitioner, or of a Member of the Pharmaceutical Society of Great Britain.

Hospital Practice, Surgical and Medical; consisting in attendance during two years at a recognized General Hospital which accommodates not fewer than eighty Patients, and possesses a distinct staff of Physicians and Surgeons.

OUT-DOOR PRACTICE, during six months, at an Hospital or Dispensary, or with a Registered Medical Practitioner,

Practical Midwifery; consisting in attendance during three months, at an Obstetric Hospital, or attendance on at least six cases of labour, certified by a Registered Medical Practitioner, or by the Physician Accoucheur of an hospital having an Obstetrical Department.

VACCINATION.—The candidate must produce a certificate from a

\* Two courses of Midwifery, of fifty lectures each, are reckoned equivalent to one course of one hundred lectures, provided they embrace different departments of Obstetric Medicine.

† Students are recommended to take the class of Pharmacology and Practical Pharmacy in the summer before their attendance on the course of Materia Medica; but attendance on such a course cannot be substituted for attendance on the course of systematic Lectures on Materia Medica, which must be taken before the third Professional Examination, new regulations.

recognized Vaccination department in an Hospital, Dispensary, or other public institution, that he has performed the operation successfully under the teacher's supervision; that he is familiar with the different stages of the vaccine vesicle, and with the mode of preserving lymph, and is generally well instructed in the subject.\*

#### C .- PROFESSIONAL EXAMINATIONS.

By an order of Her Majesty in Council, dated 13th August, 1877,† the following are the arrangements for Professional Examinations:—

- Every candidate for the Degrees of Bachelor of Medicine and Master in Surgery shall be examined both in writing and viva voce, First, on Chemistry, Botany, and Natural History; Second, on Anatomy and Physiology; Third, on Regional Anatomy, Materia Medica and Pharmacy, and Pathology; and Fourth, on Surgery, Clinical Surgery, Medicine, Clinical Medicine, Therapeutics, Midwifery, and Medical Jurisprudence. The Examination in Chemistry shall include Practical Chemistry; and the Examinations in Anatomy and Physiology shall include Practical Anatomy, Histology, and Practical Physiology; and the Examination in Surgery shall include Operative Surgery.
- Students may appear for examination in the first of the foregoing divisions of subjects who have completed their attendance on the required courses during one winter and two summer sessions, or during one summer and two winter sessions.

\*The recognized Vaccine Departments in Glasgow are, Western Infirmary, Royal Infirmary, and Faculty of Physicians and Surgeons.

 $\dagger$  The regulations superseded by the above order of Her Majesty in Council were as follows :—

#### PROFESSIONAL EXAMINATIONS.

The Professional Examinations are conducted in writing, orally and practically, in three divisions, as follows:—

First Division .- On Chemistry, Elementary Anatomy, Botany.

Second Division. - On Advanced Anatomy, Physiology, Zoology with Comparative Anatomy.

Third or Final Division.—On Materia Medica, including Practical Pharmacy, General Pathology, Surgery, Practice of Medicine, Midwifery, Forensic Medicine, Clinical Surgery, Clinical Medicine. Candidates are not admitted to the First Division of the Examinations before the

Candidates are not admitted to the First Division of the Examinations before the end of the second Winter Session of their course; to the Second not before that of the third Winter; and to the Final not before the end of the fourth Winter Session and the conclusion of their attendance upon all the required courses. They must produce certificates of satisfactory attendance on the courses belonging to each division before presenting themselves for these examinations, and of having passed the First or Second before offering themselves for the Second or Third examinations.

- 3. Students who have passed the first examination may appear for examination in the second division of subjects after having completed their attendance on the requisite courses (including those of the subjects of examination), and after the lapse of two winter and three summer sessions, or of three winter and two summer sessions, from the time of the commencement of their studies.
- 4. Students who have passed the two previous examinations may appear for examination in the third division of subjects at any of the terms fixed for examination by the Senate, after the conclusion of the third winter session of attendance upon Medical Classes (including those of the required subjects).
- 5. Students who have passed the examinations in the subjects of the three previous divisions may appear for examination in the subjects of the fourth division at the first term for the final examination after the conclusion of their Curriculum of study.

In addition, the following regulations will be observed :-

- The examinations will be conducted by written papers and by oral examinations. A practical knowledge of the subject is also required.
- 2. Candidates must produce certificates of satisfactory attendance on the courses belonging to each division before presenting themselves for these examinations, and no candidate is allowed to present himself for the Second, Third, or Fourth examination without having passed the immediately preceding examination.
- Previous to appearing for the final examination the candidate must produce a certificate that he is 21 years of age, or will be so on or before the day of his graduation.
- 4. At the professional examinations, candidates will be examined orally in the alphabetical order of their surnames.
- 5. Candidates who shall, on examination, be found unqualified, cannot be again admitted to examination until they shall have completed another year of study, or such portion of a year as may be fixed by the examiners.

It will be observed that all students who commence their professional studies in summer, may be admitted to the *first* professional examination before beginning the *second* winter session, whilst those who begin in winter cannot be admitted till the *end* of the *second* winter session. As it is a manifest advantage to pass the first professional examination on Chemistry, Botany, and Natural History, before beginning the second winter session, students are strongly recommended to begin their studies in summer.

The examinations are conducted by the Professors of the Faculty of Medicine, together with the other Examiners appointed by the University Court.

#### D .- DEGREE OF DOCTOR OF MEDICINE.

The Degree of Doctor of Medicine may be conferred on any candidate who shall produce evidence: a, that he is of not less than 24 years of age; b, that he has obtained the Bachelorship two or more years previously; c, that he possesses a Degree in Arts, or has, in addition to the preliminary Examination in General Education required for the Bachelorship, also passed an examination in Greek, and Logic or Moral Philosophy, together with any one of the other optional subjects included in the Second Part of the subjects of General Education; d, that he has been engaged in professional study or avocation for two years after having obtained the Bachelorship. He must also lodge an Inaugural Dissertation, certified by him to have been composed by himself, on any subject included in the branches of knowledge embraced in the professional curriculum.\* Theses for the degree of M.D. must be lodged with Mr. Moir, the Assistant-Clerk of Senate, on or before 20th March, 20th June, or 20th October. No Thesis will be approved unless it gives evidence of original observation, or, if it deal with the researches of others, gives a full statement of the literature of the question with accurate references and critical investigation of the views or facts cited: mere compilations will in no case be accepted.

# E.--REGULATIONS FOR OBTAINING A QUALIFICATION IN PUBLIC HEALTH.

A special Examination will be held once in every year in subjects relating to Public Health, and will commence on the second Tuesday in April. This Examination will consist of two divisions, and candidates shall have the option of entering for one or both of these, provided that no candidate shall be admitted to examination in the second division who has not already passed the first. All candidates for this qualification must be Registered Medical Practitioners.

Candidates must produce evidence that, either during their Medical studies or subsequently, they have attended a Course of Lectures in which special instruction was given on Public Health, and that they have attended a Course of Analytical Chemistry

<sup>\*</sup> Candidates are requested to have their Theses bound before sending them in.

specially bearing upon the subjects of examination, the teachers in both of these departments being recognized by the University Court. Candidates who have not passed an Annus Medicus in the University of Glasgow must, before presenting themselves for examination, have attended as Matriculated Students in this University at least two Courses of instruction, scientific or professional, bearing on the subjects of the examinations. The examinations shall be written, oral, and practical.

The fee for each division of this examination shall be Four Guineas. No candidate shall be admitted to examination unless he shall have given notice of his intention to the Assistant-Clerk of Senate, and paid the required fee, at least One Calendar

Month previous to the examination.

If, after payment of the fee, a candidate withdraw his name, or fail to present himself at the examination, or fail to pass it, the fee shall not be returned to him, but he shall be allowed to enter for any one subsequent examination in subjects relating to Public Health without the payment of an additional fee.

For further information candidates may apply to Professor

SIMPSON, University of Glasgow.

The examination for the qualification in Public Health shall embrace the following subjects:—

1st Division.—Physics—Pneumatics, Hydrostatics, Hydraulics. Chemistry—Analysis of Air, Water, and Food. Meteorology—Climate, Topographical and Seasonal; its influences in relation to Health and Disease. Geographical Distribution of Diseases.

2ND DIVISION.—State Medicine—Duties of Health Officer, Ventilation. Food and its Adulterations. Water and Water Supply. Sewerage and Drainage. Construction of Hospitals, Public Buildings, and Dwellings. Overcrowding. Manufactories. Insalubrious Trades. Cemeteries. Nuisances. Quarantine. Disinfectants and Deodorizers. Outbreaks of Zymotic Diseases. Sanitary Law—Knowledge of leading Sanitary Acts of Parliament. Vital Statistics.

The following are recommended as books for study:—

E. Parkes, Practical Hygiene; George Wilson, Handbook of Hygiene; A. H. Hassal, On Food and its Adulterations; Lardner and Loewy, Hydrostatics and Pneumatics.

N.B.—A Course of Lectures on Public Health will be delivered in this University during each Winter Session. For particulars apply to Professor Simpson, University of Glasgow.

# F .- EXAMINATION TERMS, GRADUATION FEES, ETC.

The examinations in General Education take place twice yearly, viz.:—in October and March or April. The examinations for Session 1881-82 will be held on Wednesday, Thursday, Friday, and

Saturday, 5th, 6th, 7th, and 8th October, 1881, and Wednesday, Thursday, Friday, and Saturday, 29th, 30th, and 31st March, and 1st April, 1882. Those who intend to present themselves for either of these examinations are required to send in their names to Mr. Moir, the Assistant-Clerk of Senate, on or before the 21st of September or the 15th of March. Those who are not matriculated students of the University pay a fee of 10s. on first

entering their names for this examination.

The Professional Examinations are held at the following terms, viz:—\*The First, Second, and Third in October and April (in 1881-82, beginning on 11th October and 7th April); and the Fourth in June and July (in 1881 the Clinical Examinations will begin on June 9, the Written Examinations on July 11). Before being admitted to Examination, the candidate must lodge with the Assistant-Clerk of Senate, at the appointed time (1st June, 23rd September, or 13th March), a statement, properly filled up in a printed Schedule with which he will be furnished, of his course of study, such as may be required for each division of examination, and the necessary certificates or other documents, together with the fees.

The terms for conferring Medical and Surgical Degrees are 1st

May, 1st August, and second last Thursday of November.

In accordance with the Promissory Oaths Act, 1868, a Declaration in the following English form is now substituted for the Latin Oath, or Sponsio Academica, formerly required to be taken

and subscribed by every Candidate on Graduation:

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge. And I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

The Fees for Degrees are as follows:—

 For the Degree of M.B., £15, 15s., of which £5, 5s., is to be paid before each of the first three divisions of the Examinations.

2. For the Degree of C.M. (in addition to the fees paid for M.B.)

±0, 08

3. For the Degree of M.D., £15, 8s. (including the sum of £10, 3s. for Government Stamp).

The following is the order in which the Written Examinations will be held—
First Day, Chemistry, Botany, and Zoology; Second Day, Anatomy and
Physiology; and Third Day, Materia Medica and Pathology. Detailed arrangements will be announced immediately before the examinations.

The Preliminary Examinations in General Education of the following Bodies are recognized pro tanto—that is, they exempt from Examination on the subjects comprised in them, in so far as the Examinations are of the same extent as those required by this University.

# I.—Universities in the United Kingdom.

- University of Oxford.—Junior Local Examinations. Senior Local Examinations. Responsions. Moderations. Examination for a Degree in Arts.
- UNIVERSITY OF CAMBRIDGE—Junior Local Examinations. Senior Local Examinations. Higher Local Examinations. Previous Examination. Examination for a Degree in Arts.
- UNIVERSITY OF DURHAM—Junior Local Examinations. Senior Local Examinations. Registration Examination for Medical Students. Examination for Students at the end of their first year. Examination for a Degree in Arts.
- University of London—Matriculation Examination. Preliminary Scientific (M.B.) Examination. Examination for a Degree in Arts or Science.
- University of St. Andrews—Local Examinations (Honours Certificate). Preliminary Examination for Graduation in Medicine or Surgery. Examination for a Degree in Arts.
- UNIVERSITY OF GLASGOW—Local Examinations (Senior Certificate). Examinations for Degree of M.A. or B.Sc. Preliminary Examination for Graduation in Medicine or Surgery.
- UNIVERSITY OF ABERDEEN—Local Examinations (Honours Certificate). Preliminary Examination for Graduation in Medicine or Surgery. Examination for a Degree in Arts.
- University of Edinburgh—Local Examinations (Ordinary Certificate.) Local Examinations (Honours Certificate). Preliminary Examination for Graduation in Science or Medicine and Surgery. Examination for a Degree in Arts.
- UNIVERSITY OF DUBLIN—Public Entrance Examination. Examination for a Degree in Arts.
- Queen's University in Ireland—Local Examinations for Men and Women. Entrance or Matriculation Examination. Previous Examination for B.A. Degree. Examination for a degree in Arts.

OXFORD AND CAMBRIDGE SCHOOLS' EXAMINATION BOARD.

11.—Other Bodies named in Schedule (A) to the MEDICAL ACT.

ROYAL COLLEGE OF SURGEONS OF ENGLAND—Preliminary Examination for the Membership. Preliminary Examination for the Fellowship. Conducted under the superintendence of the College of Surgeons by the Board of Examiners of the College of Preceptors.

APOTHECARIES' SOCIETY OF LONDON-Examination in Arts.

ROYAL COLLEGE OF PHYSICIANS AND SURGEONS OF EDINBURGH— Preliminary Examination in General Education, conducted by a Board appointed by these two Colleges combined.

FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW—— Preliminary Examination in General Education.

ROYAL COLLEGE OF SURGEONS IN IRELAND—Preliminary Examination; Certificate to include Mathematics.

APOTHECARIES' HALL OF IRELAND—Preliminary Examination in General Education.

III.—Examining Bodies, in the United Kingdom, not included in Schedule (A) to the MEDICAL ACT (1858).

College of Preceptors—Examination for a First Class Certificate.

EXAMINERS FOR COMMISSIONS AND APPOINTMENTS IN HER MAJESTY'S SERVICE, MILITARY, NAVAL AND CIVIL.

IV .- Indian, Colonial, and Foreign Universities and Colleges.

UNIVERSITY OF CALCUTTA—Entrance Examination; Certificate to include Latin.

UNIVERSITY OF MADRAS—Entrance Examination; Certificate to include Latin.

UNIVERSITY OF BOMBAY—Entrance Examination; Certificate to include Latin,

UNIVERSITY OF M'GILL COLLEGE, MONTREAL — Matriculation Examination.

UNIVERSITY OF BISHOP'S COLLEGE, MONTREAL.—Matriculation Examination.

UNIVERSITY OF TORONTO-Matriculation Examination.

University of Trinity College, Toronto-Matriculation Examination.

University of Queen's College, Kingston-Matriculation Examination,

UNIVERSITY OF VICTORIA COLLEGE, UPPER CANADA—Matriculation Examination.

University of Manitoba-Previous Examination.

UNIVERSITY OF FREDERICTON, NEW BRUNSWICK — Matriculation Examination.

University of King's College, Nova Scotia—Matriculation Examination. Responsions.

MEDICAL COLLEGE, HALIFAX, NOVA SCOTIA-Matriculation Examination.

University of Melbourne-Matriculation Examination.

University of Sydney-Matriculation Examination.

University of Adelaide—Matriculation Examination. Primary Examination; First-Class Certificate.

Tasmanian Council of Education—Examination for the Degree of Associate of Arts; Certificate to include Latin and Mathematics.

University of the Cape of Good Hope—Matriculation Examination. Examination for a Degree in Arts.

University of Otago-Preliminary Examination.

University of New Zealand-Entrance Examination.

CHRIST'S COLLEGE, CANTERBURY, NEW ZEALAND-Voluntary Examinations.

Codrington College, Barbadoes—English Certificate for Students of two years' standing, and Latin Certificate or "Testamur."

MICHIGAN COLLEGE OF MEDICINE-Matriculation Examination.

GERMANY AND OTHER CONTINENTAL COUNTRIES — Gymnasial Abiturienten Examen in Germany, and the corresponding Entrance Examination to the Universities in other Continental Countries.

#### 4.-BACHELOR OF LAWS (LL.B.) AND BACHELOR OF LAW (B.L.)

The conditions on which the Degree of LL.B. is now conferred are regulated by ordinance of the Universities Commissioners, No. 75, the principal provisions of which are the following:—

I. No one shall hereafter be admitted as a candidate for the Degree, unless he be a graduate in Arts of a recognized Uni-

versity.

II. The course of study in Law necessary for the Degree of Bachelor of Laws shall extend over three academical years, and shall include attendance on a distinct course in each of the six following departments, viz.:—

-						
1.	CIVIL LAW, .				. )	During Courses of not
2.	LAW OF SCOTLAND,				. !	less than Eighty Lec-
	Conveyancing,					tures each.
4.	Public Law, .				·	During Courses of not
5.	CONSTITUTIONAL LA	W A	$^{ m tH}$ dr	STOR	Y, }	less than Forty Lec-
6	Manager Transconner	T 737.0	173			tures each.

III. No one shall be admitted as a candidate for this Degree in any University, unless two at least of the three academical years of his course of study in Law shall have been in such University.

IV. Candidates for the Degree of Bachelor of Laws shall be examined, both in writing and viva voce, on each of the six depart-

ments of Law above specified.

6. MEDICAL JURISPRUDENCE.

V. The Examiners, in judging of the qualifications of candidates, shall have special regard to their acquirements in the two depart-

ments of Public Law and Constitutional Law and History.

VI. The Examiners for Degrees in Law in each University shall be six in number, and there shall always be one Examiner specially qualified for each one of the six departments above specified; and where the Professors of the Faculty of Law in any University do not furnish the requisite number of Examiners duly qualified, the number shall be made up by the appointment of additional Examiners by the University Court; provided always that no person shall be appointed an additional Examiner in any University, unless he be a professor in the Faculty of Law in a Scottish University, or shall have obtained the Degree of Bachelor of Laws, in accordance with the provisions of this ordinance.

VII. Each candidate for the Degree of Bachelor of Laws shall pay a Fee of Five Guineas in respect of his examination for the

Degree.

The following Regulations for the Degree of Bachelor of Law (B.L.) were sanctioned by Her Majesty, by order in Council, dated

6th August, 1874.

VIII. Besides the Degree in Law specified in the said ordinance, there shall in future be in the University of Glasgow a second Degree in Law granted after examination, namely, the Degree of Bachelor of Law (B.L.)

IX. No one shall be admitted to examination as a candidate for

the Degree of Bachelor of Law in the University of Glasgow, unless he be a Graduate in Arts, qualified as prescribed in section I. (supra), or unless he shall have passed a satisfactory examination in Latin and in any three of the following subjects (Logic or Mathematics being always one of the three), viz.: (a) Greek, with the alternative of French or German, (b) Logic, (c) Moral Philosophy, (d) Mathematics, (e) Natural Philosophy, and (f) English Literature; and further, shall have studied, during at least two academical years, two or more of the above branches, in one or more of the Universities mentioned in section I. The examinations shall be conducted by Examiners in Arts, together with some of the Law Examiners.

X. The course of study in Law necessary for the Degree of Bachelor of Law in the University of Glasgow shall extend over at least two academical years, and shall include attendance on a distinct course, as specified in section II., in each of the three departments of Civil Law, Law of Scotland, and Conveyancing, and in any one of the other three departments of Law mentioned in that section: Provided always that in lieu of Civil Law, or one of the last-mentioned three departments of Law, attendance on a distinct course of Moral Philosophy shall be admitted as sufficient, or, in the event of Moral Philosophy having been selected by a candidate as one of the three optional subjects of Preliminary Examination, then attendance on a distinct course of Political Economy shall be admitted in lieu of Civil Law or one of the said other three departments of Law. No one shall be admitted to examination as a candidate for the said Degree, unless two academical years of his course of study in law shall have been in the University of Glasgow. The candidates shall be examined in each of the departments in which they shall have given attendance as herein required.

XI. The Examiners for the Degree of B.L. in the University of Glasgow shall be the Professors of the Faculty of Law, together with two additional Examiners appointed by the University Court from among Graduates in Law of any of the Universities of Scotland, provided always that for six years after the approval of this alteration on the ordinance by Her Majesty in Council, any one shall be eligible as Examiner who is a member of the General Council of any of the Universities of Scotland. Each of such additional Examiners shall

hold office for the term of three years.

XII. The fee to be paid by each candidate for the Degree of Bachelor of Law in the University of Glasgow shall be Three Guineas.

XIII. Any candidate who, before the approval of the present alteration by Her Majesty in Council, may, with a view to Graduation in the University, have passed an examination in any of the subjects hereby required for the Degree of B.L., shall be entitled to reckon such examination as an examination in the same subject or subjects for the purposes of the said Degree.

By regulation of the Faculty of Advocates, any one who has obtained the Degree of LLB from a Scottish University is held

qualified in General Scholarship and Law with a view to admission to the Bar, without examination or other evidence of such

qualification.

By the Law Agents Act, 36 and 37 Vic., c. 63, the holder of a degree in Law or in Arts of a University in Great Britain or Ireland, granted after examination, is qualified to apply for admission as a Law Agent after an apprenticeship of three years, instead of five, as required in the ordinary case; and by Act of Sederunt of 20th July, 1878, any applicant who holds the Degree of LL.B. or of B.L. of any Scottish University is exempted from any examination in Law before the Examiners of Law Agents, excepting only on Forms of Process, Civil and Criminal.

The examinations for LL.B. and B.L. in Session 1881-82 will em-

brace the following books and subjects, viz.:-

In Civil Law.—Justinian's Institutes, with Sandars' Introduction and Notes.

- In the Law of Scotland.—Bell's Principles of the Law of Scotland, and the Professor's Lectures.
- In Conveyancing.—The Completion of Titles to Heritable and Personal Estate.
- In Public Law.—(1) History and Philosophy of Law; (2) Public International Law; and (3) Private International Law. Authorities recommended—Maine's Ancient Law; Ahrens' Cours de Droit Naturel, or Lorimer's Institutes of Law, or Trendelenburg's Naturrecht; Wheaton's Elements of International Law, by Boyd, or Twiss' Law of Nations, or Heffter's Droit International de l'Europe, together with the prize cases reported in Tudor's Leading Cases in Mercantile and Maritime Law, or Bluntschli's Völkerrecht, together with the above cases; the Eighth Volume of Savigny's System translated by Guthrie.
- In Constitutional Law and History.—(1) History of the Constitution;
  (2) Existing Constitutional Law. Authorities recommended—
  Hallam's Middle Ages, chap. viii.: Hallam's Constitutional
  History of England; Stephen's Commentaries (Ed. 1874), Book
  IV., Part I.; the British Constitution, by Walter Bagehot; the
  Crown and its Advisers, by Ewald.
- In Medical Jurisprudence.—Infanticide; Concealment of Pregnancy; Rape; Wounds; Identity; Presumption of Survivorship; General Evidence in Cases of Poisoning; Examination of Blood Stains; Legitimacy; Insanity. (Text-Book, Guy's Principles of Forensic Medicine.)
- In Moral Philosophy.—The subjects of examination for the Degree of M.A. Those who have not attended the class of Moral Philosophy will be examined in Sidgwick's Methods of Ethics, and will also be expected to show a general knowledge of the history of Ethical Philosophy in modern times.

In Political Economy.—The General Principles of Political Economy, and the 2nd Book of Mill's Political Economy.

In French and German.—The subjects prescribed for the Preliminary Examination of Medical Students, p. 102.

The Examination in the Arts subjects under section IX. will be

the same as that for the Degree of M.A.

Examinations in Law Subjects for Degrees in Law are held twice a year, viz., in April, and in the end of October or beginning of November.

The Examinations in the Arts subjects are held at the same periods as the corresponding Examinations for M.A.; those in French and German at the same periods as the Preliminary Examinations of Medical Students in these Subjects.

Names of Candidates to be given in, with the Examination Fees, to the Assistant Clerk of Senate on or before 10th March or 1st

October.

#### 5.-BACHELOR OF DIVINITY.

This Degree, having been revived in the University by authority of the University Court and Senatus Academicus, is conferred at the close of each session on such qualified candidates as shall satisfy the Members of the Divinity Faculty of their proficiency in the departments of (1) Hebrew and Biblical Criticism; (2) Divinity and Church History; the examinations in Hebrew and Biblical Criticism to be held in November (11th and 12th November, 1881); those in Divinity and Church History, in April (13th and 14th April, 1882).

The scheme of examination for Session 1881-82 is as follows:—

1. Divinity.—Miracles; Doctrine of the Person of Christ; Doctrine of the Lord's Supper; Biblical Theology—The Pauline Doctrine of Sin and Law.

The following Books may be consulted:

Mozley on Miracles; Steinmeyer, The Miracles of our Lord; Thomasius, Christi Person und Werk; Dorner, Doctrine of the Person of Christ; Gess, Lehre von der Person Christi; Bruce, The Humiliation of Christ; Halley, The Sacraments, Part II.; Ebrard, Dogma vom heiligen Abendmahl; Martensen, Christian Dogmatics; Oosterzee, Christian Dogmatics; Weiss, Biblische Theologie des Neuen Testamentes: Schmid's Biblical Theology; Reuss, History of Christian Theology in the Apostolic Age; Pfleiderer, Paulinism.

2. Church History.—The Fourth Century.

The following are among the Books which may be consulted:

The Greek Ecclesiastical Historians; Hefele's "History of Councils of the Church"; Beugnot's "Destruction du Paganisme

en Occident"; Chastel's "Histoire de la Destruction du Paganisme dans l'Empire d'Orient"; Gibbon's "Decline and Fall of the Roman Empire"; De Broglie's "L'Eglise et l'Empire au 4me Siècle."

3. Hebrew.—(1) The Book of Zechariah, and Psalms xxi.-xli. inclusive; translation, grammar, with questions on authorship and introduction. (2) Portions of unpointed Hebrew (selected from the books prescribed) to be pointed. (3) Easy English sentences to be done into punctuated Hebrew.

The following Books are recommended:

"Zechariah and his Prophecies," the Bampton Lecture for 1878, by C. H. H. Wright, with other works therein referred to; The Commentaries of Delitzsch, Perowne and Lowe and Jennings on the Psalms; Ewald's Syntax (Clark's translation).

 Biblical Criticism.—(1) Introduction to the Gospel according to Luke. (2) Exegesis of Luke iii. 21—xviii. 14, with critical comparison of the parallel passages in Matthew and Mark.

(3) The Principles of Interpretation.

Books which may be consulted:

(1) The relative Commentaries of Meyer, De Wette, or Alford; Bleek's Synoptische Erklärung der drei ersten Evangelien; (2) Davidson's Sacred Hermeneutics (1843), or his Treatise on Interpretation in Horne's Introduction, vol. II.; Ernesti, Institutio Interpretis; Immer, Hermeneutik des Neuen Testamentes.

All Graduates in Arts of any of the Universities of Scotland or of England, or of Ireland, or of a Colonial University whose degrees shall, for this purpose, have been specially recognized by the University Court, who have studied at this University during at least two sessions, and "who have gone through a due course of Theological training, whether in this University or in any other Theological School in Scotland or England," may become candidates for the Degree.

Students who have completed the second year of their Divinity studies, subsequent to the termination of their Course in Arts, may present themselves for examination in Hebrew and Biblical

Criticism.

Candidates must make application by letter to the Professor of Divinity not later than November 1st or April 1st respectively, accompanying their letter with a statement of their course of study as students of Divinity, and with the necessary certificates.

The Fee for the Degree is £3 3s.

#### 6.-DOCTOR OF DIVINITY.

This Degree is now conferred in accordance with the following Regulations, which were adopted by the Senate, April 28th, 1869:

I. A Bachelor of Divinity of this University of fifteen years' standing may proceed to the Degree of D.D. after performance of the following exercises to the approval of the Senate:—

1. He shall compose a Thesis on a Theological subject approved by the Professor of Divinity, and shall deposit with the Clerk

of Senate fifty printed copies of the Thesis.

2. He shall preach a University Sermon in a place and at a time to be appointed by the Vice-Chancellor and the Professor of Divinity. The sermon may be preached at any time after he is a B.D. of five years' standing.

II. A Bachelor of Divinity of this University of eight years' standing may proceed to the Degree of D.D. by passing a higher examination in Two of the Departments of the Theological curriculum, the Senate determining on the Report of the Examiners dispense with this examination in the case of a Bachelor of Divinity of whom the Theological Faculty shall report that he has published a work of merit in Theological Science.

III. A Graduate in Arts or Member of the General Council, who completed his theological course before the revival of the Degree of B.D., may proceed to the Degree of D.D. in the same way as a B.D. of eight years' standing under Regulation II, or as a B.D. of fifteen years' standing under Regulation I, his standing being reckoned from the completion of his theological course.

IV. The University dues for the Degree of D.D. shall be, as here-tofore, Twenty Pounds; under deduction of the dues previously paid on examination for the Degrees of M.A. and B.D.

#### 7,-HONORARY DEGREES.

The following resolutions regulating the procedure of the Senate in conferring honorary degrees were agreed to, April 27, 1867:—

1. At the commencement of every Session a Committee shall be appointed, to be called the "Committee on the Degrees of D.D. and LL.D.," consisting of the Principal, two Professors from the Faculty of Theology, two from the Faculty of Arts, one from the Faculty of Law, and one from the Faculty of Medicine."

2. It shall be the duty of this Committee, after proper inquiry, to submit to the Senate the names of such persons as shall appear to the Committee duly qualified to obtain, or specially entitled to receive

the Degree of D.D. or LL.D.

3. All proposals or suggestions as to conferring these Degrees shall

accordingly be referred to this Committee.

4. In recommending any person to the Senate for such a Degree, the Committee shall present in writing a statement of the grounds on which the recommendation is founded, and shall report more especially as to the following points:—

(a) Whether the person recommended has studied at this or any other University, whether he already holds any Academical Degree, and if not, whether he has had an opportunity of taking either the Degree of M.A. or that of B.D.

(b) Whether he is the author of any work of acknowledged merit, or has otherwise contributed to the progress of learning and

science.

(c) Whether he holds any ecclesiastical, civil, or educational office—how long he has done so—and with what success he has discharged its duties.

(d) And, in general, whether his character and position in society

will warrant the conferring of the proposed distinction.

5. That no resolution to confer any Degree shall be moved in the Senate until one month shall have elapsed after the presenting of the Committee's recommendation.

Proposals or suggestions as to these Degrees are brought before the Senate at the first meeting in November and the first meeting in March.

#### ACADEMIC DRESS.

# GRADUATES OF THE UNIVERSITY.

On ceremonial occasions the Graduates are expected to appear in

the Gown and Hood proper to their Degrees.

The ordinary Gowns to be worn by Graduates of the University of Glasgow are of black silk or stuff, of similar shapes to those appropriated to the corresponding degrees in the other British Universities.\*

The Hoods for the different Degrees are as follows:—

B.A., Black Silk, bordered inside with Red Purple Silk (colour of Bell Heather—*Erica Cinerea*).

M.A., Black Silk, lined with Red Purple Silk.

B.Sc., Black Silk, lined with Gold coloured Silk (colour of Whin Blossom—*Ulex Europæa*).

D.Sc., Black Velvet, lined with Gold coloured Silk.

B.L., Black Silk, bordered inside with Venetian Red Silk (colour of Clove Carnations).

LL.B., Black Silk, lined with Venetian Red Silk. LL.D., Black Velvet, lined with Venetian Red Silk.

M.B. and C.M., Black Cloth, lined with Scarlet Silk.

M.D., Black Silk, lined with Scarlet Silk.

B.D., Black Silk, bordered with Black Velvet, liued with Red Purple Silk.

D.D., Black Velvet, lined with Black Silk, or (if the Graduate be Master of Arts) with Red Purple Silk.

<sup>\*</sup> The Robemakers to the University, Messrs. Dawson & MacNicol, have standard patterns of the gowns, which, it may be stated for the information of those at a distance, are of the same shape with the ordinary (or undress) gowns of the corresponding degrees at Cambridge.

#### UNDER-GRADUATES.

By a Statute of the Commissioners appointed by the Act 1690, chapter XVII, of the Parliament of Scotland, "for the Visitation of Universities and Schools," it was enacted that "all the students in the several Universities and Colleges within this kingdom be obliged to wear gowns during the time of the sitting of the Colleges," and that "the Regents or Masters be obliged to wear black gowns, and the students red gowns; and, in regard that wearing of gowns has never been the custom in the College of Edinburgh, the Commissioners do therefore recommend to the Masters of that College to endeavour to bring the custom of wearing gowns there into practice." It appears from the University records that the wearing of red gowns had been previously the practice in Glasgow, and it continued to be the practice in all the Arts classes which existed at the date of this statute uninterruptedly till recently.

The General Council of this University having requested the University Court to recommend to the Senate the propriety of requiring the students to conform to the ancient practice of this University as to Academic Dress; and the University Court having remitted the subject to the determination of the Senate, with an expression of regret that the Academical Dress formerly worn by the Arts students has of late years been laid aside, the Senate has given notice that students in Arts are required to wear the gown on public occasions, and in their classes, unless for a reason satisfactory to the Professor of the class.

Graduation in Arts shall appear in their gowns at the examinations and at the Ceremony of Graduation.

While this notice does not apply to students not in the Faculty of Arts, all students in the University are entitled to wear the Red Gown.

The Senate further require that, in future, all candidates for

The propriety of wearing an Academical Cap along with the Gown having been brought under the notice of the Senate by a memorial from the students, the following resolution was adopted, April 25th, 1871:—

"The Senate, fully recognising the propriety of a suitable Academic Cap being worn along with the Gown, recommend that the Trencher Cap be so worn, but desire that it be not worn without the Gown."\*

### CEREMONY OF GRADUATION.

The following are the regulations adopted by the Senate:—
All Degrees, honorary or gained by examination, shall be publicly conferred, except in special cases, to be decided by the Senate.

Candidates for Graduation in Arts are required to appear in students' red gowns; candidates for Graduation in other faculties in black gowns; those who are already Graduates, in the costume proper to their previous degree.

<sup>\*</sup> Messrs. Dawson & MacNicol supply Caps. Gowns and Caps may be obtained from the Janitor at the University at the makers' prices.

# V.—BURSARIES, SCHOLARSHIPS, &c., PRIZES.

N.B.—No alumnus of the University is allowed to hold at one time more than one Bursary, Scholarship, or Fellowship, except in cases provided for by the Regulations.

# 1. BURSARIES.

Note.—Bursars in the Faculty of Arts are required to attend each session two at least of the classes embraced in the curriculum for M.A. Bursars in the Faculty of Theology are required to attend the Divinity Class and any two of the three classes of Hebrew, Church History, and Biblical Criticism.

In the case of Bursaries in the gift of the Senate, in appointing to which "a preference" is to be given to certain names, &c., by a "preference" the Senate understand, in every

instance, a preference cæteris paribus.

#### INDEX.

INDEA.							
Foundation.	No. of Bursar- ies.	FACULTY.	Approximate Annual Value of each.	Page in Calen- dar.			
Adam, James, Adam, John,	3 3 1	Arts, Theology, Arts,	£12 £15 £20	124 140 124			
Angus and Mearns Bene-	2	Arts,	£15	124			
Ardkinglass,	1	Arts and Theology,	£9 10/	146			
Armagh,	3	Theol., Law, or Med.,	£25	148			
Ayrshire Masonic,	1	Arts,	£25	125			
Ayrshire Society,	3	Any Faculty,	£10	148			
Baxter,	1	Arts and Theology,	£8	146			
Biggart Memorial,	10	Arts,	£25	125			
Black,	$\frac{2}{2}$	Arts,	£20	125			
Black,	1 1	Theology,	£40 £15	141 126			
Blackquarry School,	1	Arts,	£11	141			
Boyd, Boyd and Sanders,	1	Theology, Theology,	£13 16/8	141			
Brand,	3	Arts,	£26	126			
Brisbane,	i	Medicine,	£45	144			
Brown,	1	Arts,	£6 13/4	126			
Brown or Ettles,	2	Theology,	£20	141			
Brown (Saltcoats),	$\frac{2}{1}$	Arts,	£12	126			
Browne (Ayrshire),	$\overline{2}$	Arts.	£17 10/	127			
Buchanan,	$\frac{2}{2}$	Arts,	£18	127			
Buchanan (Bellfield),		Arts and Theology,	£53	146			
Celtic Society (Campbell), -	1	Any Faculty,	£5	148			
Clark, John (Mile-end), -	16	Arts,	£30	127			
Cowan,	1	Arts,	£35	128			
Craig,		Arts,	£25	129			
Crawfurd (or Bishop's),	1	Arts,	£14	129			
Davidson,		Any Faculty,	£35	149			
Denny,		Any Faculty,	£30	149			
Dumfriesshire Society,		Any Faculty,	£15 £35	149 129			
Duncan's Bute,		Arts,	£40	129			
Dundonald,		Arts,	£40 £41 2/6	142			
Ewing, James,		Theology, Arts,	£20	130			
Exchequer,		Arts,	£10	147			
Exchequer,	3	Theology,	£13 6/8	147			
monequer,	. 0	incology,	210 0/0	1			

# BURSARIES.

	No. of		Approximate	Page
FOUNDATION.	Bursar-	FACULTY.	Annual Value	in Calen-
	ies.		of each.	dar.
				-
Towners	95	Theol., Law, Med., or Dept. of Eng. Science,	£70	149
Ferguson, James,	2	Dept. of Eng. Science,	} 210	149
Forfar,	4	Arts,	£20	130
Forrest,	5	Any Faculty,	£22	150
Foundation,	4	Arts,	£10	130
Fullarton of Overton,	5	Arts,	£10	130
Gibson, John,	2	Any Faculty,	£20	151
Gilchrist,	1	Arts,	£8	131
Gilhagie,	1	Theology,	£6 6/	142
Hamilton,	3	Arts.	£20′	147
Hamilton,	3	Theology,	£25	147
Hannay,	3	Arts,	£15	131
	ĭ	Arts.	£20	131
Hastie,	$\frac{1}{2}$	Theology,	£20	142
Howison,	ī	Arts,	£9	132
Hyndford,	1	Arts.	£6 13/4	132
Jaffrey, John Ferguson, -	Î	Arts,	£32 10/	132
Kerr, Malcolm,	ī	Arts (Nat. Phil.),	£18	132
Kerr, Malcolm,	l i	Med. (Chemistry),	£18	144
Kintyre (Ker),	l i	Any Faculty,	$\widetilde{\mathfrak{L}}_{20}$	151
Lamb,	î	Arts or Theology,	£11	133
Leadbetter,	1	Arts,	£9	133
Leighton,	2	Arts and Theology,	£9	147
Leyden, John,	$\frac{1}{2}$	Arts,	£22	133
Library (Old),	1	Theol., Law, or Med.,		148
Logan,	ī	Theology,	£15	142
Logan,	i	Medicine,	£15	144
Lorimer,	4	Arts (Philosophy),	£25 & £18	133
Lorimer,	4	Arts (Mathematics),	£25 & £18	133
Lorimer,	4	Theology,	£25 & £18	142
Lorimer,	4	Medicine,	£25 & £18	144
Lumsden,	Î	Theology,	£15	142
Lusk,	Î	Arts,	£33	134
Macfarlane,	1	Medicine.	£40	145
MacGrouther,		Arts,	£20 & £15	135
Maltmen,	$\frac{2}{2}$	Any Faculty,	£25	151
Marshall,	ī	Theology,	£17	142
Marshall,	1	Medicine,	£17	145
Merchants' House,	1	Arts.	£25	135
Merchants' House,	2	Medicine,	£25	145
Merchants' House,	1	Law,	£25	144
Metcalfe,	4	Arts.	£25	135
Monteith,	3	Arts,	£16	151
Muir,	1	Theology,	£40	142
Muir,	$\begin{bmatrix} 1\\2\\2 \end{bmatrix}$	Arts (Mathematics),	£20	136
Muir,	2	Arts (Civ. Eng.)	£20	136
Notman,	1	Theology,	£16 10/	143
Orr-Ewing Dumbartonshire,	16	Arts,	£25	137
Patrick,	2	Arts,	£80 and £40	138
Perthshire Society,	1	Arts,	£25	139
Pollock,	3	Arts,	£35	139
Rainy,	2	Medicine,	£20	145
Ramsay-Walker,	2	Arts,	£11	139
	4			1

FOUNDATION,	No. of Bur- saries.	FACULTY.	Approximate Annual Value of each.	Page in Calen- dar.
Ross,	1 1 2 2 4 1 1 2 1 1 7	Arts, Divinity, Arts, Any Faculty, Arts, Theology, Any Faculty, Ats (Philos-), Law, Medicine, Arts and Theology, Theology,	£25 £40 £25 £9 £15 £25 £13 6/8 £11 £12 £18 £36 £40 £13 6/8	139 143 139 152 140 140 143 152 140 144 146 147

# A.-BURSARIES IN THE FACULTY OF ARTS.

James Adam Bursaries.—Three in number, founded by the Rev. James Adam, minister of Cumbrae, who died in 1830. They are appropriated to students in the gown classes, and tenable for four years. In appointing to one of the Bursaries, preference is given to the kindred of the founder, and in appointing to another to students of the name of Adam. The appointment is vested in the Earl of Glasgow, the Professor of Divinity, and the Minister of Cumbrae. Value about £12 per annum each.

Bursars—\*George Anderson, 1880; Basil Jackson, 1880; Alexander H. M'Ilraith, 1880.

Adamson Bursary.—Founded by the Rev. David Adamson, Minister of Fintry, in 1674, is appropriated to a student in Philosophy, son of a freeman in one of the Seven Incorporate Trades of Stirling. It is tenable for four years by a student entering the Greek Class, for three years by a student entering the Logic Class; and the appointment is vested in the Convener Court of Stirling. Value, the free proceeds of the capital, which now amounts to about £500.

Bursar-John Paterson, 1879.

Angus and Mearns Benevolent Society's Bursaries.—Two in number, founded in 1860, by the Glasgow Angus and Mearns Benevolent Society. Value, £15 per annum each. They are tenable for four years in the Arts classes, and are open only to natives, or sons of natives, of the counties of Forfar and Kincardine, who are desirous of obtaining a University education, but whose circumstances are such as to render them unable to accomplish it without the aid of a Bursary.

Applications to be made not later than 1st September in each year to

Mr. Stuart Spence, 49 Virginia Street, Glasgow.

Bursars—James W. Fraser, 1879; David J. Lundie, 1880.

<sup>\*</sup> Vacant through lapse of time.

AYRSHIRE MASONIC BURSARY.—Founded in 1874. Fund raised by subscription among the different Masonic Lodges in Ayrshire. Open to the sons of Freemasons, members of an Ayrshire Masonic Lodge, and awarded by competition to a student of the first year. No candidate eligible who is not educated or resident in Ayrshire, or who is upwards of eighteen years of age. Tenable for four years or during Arts curriculum of Bursar, but not tenable along with another Bursary; the Bursar to pass the Departmental Examinations for M.A. Value, interest of Mortified Fund, and annual subscriptions, not exceeding in all £25 a year.

Applications to be made to Mr. Robert Wylie, Provincial Grand

Secretary, Mother Lodge, Kilwinning. Bursar—Robert MacMillan, 1878.

BIGGART MEMORIAL BURSARIES.—Ten in number. Value, £25 per annum each. Founded in 1876 by Mr. Thomas Biggart, of Baidlandhill, Dalry, Ayrshire, in memory of his son, Thomas Biggart, an alumnus of Glasgow University, who died in 1874. The Bursaries are open to competition at the annual Bursary and Preliminary Examination to students who are entering on the Arts Course at the University of Glasgow, with a view to the ministry of the United Presbyterian Church, and are designed to enable such students more easily to pursue that curriculum and obtain, as far as practicable, the Degree of Master of Arts.

The Bursaries are tenable for four years.

The Bursary Fund consists of the sum of £6,000, invested in real estate in Scotland, and the surplus revenue may be applied to prolong the tenure of any of the Bursars for a fifth year, or to the granting of additional Bursaries on the same conditions as are applicable to the others.

The Bursary is payable by equal moieties on the second day of February and at the close of the Winter Session; and the Bursar, on applying to the Principal for a precept for the second moiety, is required in each year to produce, besides the usual certificate from the Professors, a certificate signed by the Chairman and Clerk of the Theological Committee of the U.P. Synod, to the effect of his being recognised by that Church as an accepted student, pursuing his studies with a view to the ministry therein.

Bursars—\*John Gray, 1877; John B. Hamilton, 1878; David James, 1878; Gavin S. M'Callum, 1878; Joseph B. Pirret, 1879; Peter C. Bryce, 1880; Andrew M. Smith, 1880; James Gray, 1880. (Three

vacancies).

BLACK BURSARIES.—Founded by Mrs. Janet Black—widow of the Rev. William Black, D.D., minister of the Barony Parish, Glasgow,—who died in 1876. Mrs. Black, by her settlement, made provision, interalia, for the institution of two Bursaries in Arts, each of the annual value of £20 or thereby. The Bursaries are open to competition to students entering on their first session in the University; and the Bursars are required to attend the qualifying courses for a Degree in Arts.

Bursars—\*Patrick H. Aitken, 1880 (1877); James Macmillan, 1878.

<sup>\*</sup> Vacant through lapse of time.

BLACKQUARRY SCHOOL BURSARY.—Founded in 1876 by the Trustees of the Blackquarry School, Port Dundas, Glasgow. The Police Board of Glasgow having acquired the school compulsorily under "The Glasgow Police Acts," the Trustees resolved to apply the proceeds, after payment of all claims upon the Institution, in founding a Bursary in the University of Glasgow. The Bursary is open to competition to students in the Faculty of Arts on their first entering the University, under the same regulations as those of the competition Bursaries in the University, and is tenable for four years, subject to the condition that the Bursar shall attend the qualifying course for the Degree of M.A. Value, the annual income of a sum of £420 (about £15).

Bursar—\*Francis Anderson, 1880 (1877).

Brand Bursaries.—Mr. Robert Brand, son of the late Mr. Robert Brand, coalmaster, Wishaw, by his Trust Disposition and Settlement, dated 28th June, 1873, directed his Trustees "to pay to the Senatus of the University of Glasgow the sum of £2,000, the income of said sum to be applied in payment of three Bursaries in Arts for the behoof of students in the University, who shall be studying with a view to the ministry of the United Presbyterian Church." Mr. Brand died on 3rd July, 1873, but in consequence of litigation, it was not till January, 1875, that the bequest, amounting, with interest, to the sum of £2,121 7s. 5d., was paid by the Trustees to the Senate. The Bursaries, which are tenable for four years, are of the annual value of about £26 each, and are awarded by public competition to students entering their first or second session in the Faculty of Arts; the Bursars to graduate as M.A. at the end of their course.

Bursars—Robert Bruce, 1878; William Orr, 1879; James Cameron, 1880.

Brown Bursary.—Founded in 1697, by Colonel Brown of Maryland. Tenable for four years. Value, £5 per annum (increased to £6 13s. 4d. by addition from Students' Bursary Fund). The Patrons are the Principal and Professors of the University, who now award it by competition.

Bursar-James A. Hogg, 1879.

Brown (Saltcoats) Bursary.—Founded in 1872 by Mr. Matthew Brown of Braehead, Saltcoats, sole acting Trustee and Executor under the Trust Disposition and Settlement of his kinsman, Mr. William Brown, junior, of Parkhead, Saltcoats, who died 13th February, 1871, and in fulfilment of the intention of his said kinsman. Value, the yearly proceeds of a sum of £300 presented to Mr. William Brown at a public banquet held in his honour, and which he had set apart to be applied for the foundation of a Bursary in connection with the University of Glasgow. Tenable for four years by a student in Arts. Preference is given in the first place to one who is either a native of the town of Saltcoats, or at the time a permanent resident in Saltcoats, provided he shall be found, on such examination as the Trustees may prescribe, properly qualified by his education for entering the University; whom

<sup>\*</sup> Vacant through lapse of time.

failing, such a one, qualified as aforesaid, as has been by birth, residence, or relationship connected with Saltcoats; and failing such, then a student whom they shall find on public examination to be best qualified

and most deserving of such nomination.

Patrons—Mr. Matthew Brown, Mr. Gavin Fullarton, of Kerelaw, Stevenston, the Ministers of the parishes of Ardrossan and Stevenston, the Chairman of the Stevenston Parochial Board, the Senior Justice of the Peace, Saltcoats, the Principal of Glasgow University, and the heirs male of Mr. William Brown, jun. Applications to be made to Mr. Jas. Campbell, Saltcoats.

Bursar-Alexander M'Nab, 1879.

Browne (Ayrshire) Bursaries.—Two in number, tenable for four years, and each of the annual value of about £17 10s., founded in 1871 by Mr. Hugh Browne, residing at Darvel, in the County of Ayr, who for this purpose, and in memory of his brother, the late Dr. Alexander Browne, of Buenos Ayres, mortified to the University the sum of £1,000. The Bursaries are awarded by competition. Candidates must be natives of the County of Ayr, or must have been educated for not less than four years in a school within the said County, and must be entering on their first session at the University.

Bursars.—William Clark, 1879: (one vacancy.)

BUCHANAN BURSARY.—Founded in 1866, in recognition of the eminent services of Robert Buchanan, LL.D., as Professor of Logic and Rhetoric in the University, during the long period of forty years. It consists of the free annual interest and proceeds of a sum of £314 8s., raised by subscription, and is now given in the form of prizes. (See under "Buchanan Prizes.")

Buchanan Bursaries.—Founded by the late Robert Buchanan, LL.D., Ardfillayne, Dunoon, formerly Professor of Logic and Rhetoric in the University of Glasgow, by codicils to his will, dated 26th December, 1871, and 26th March, 1872, in which as "a token or expression of his gratitude and respect to the University of Glasgow, with which as a student, or Professor, or Member of the University Court, he had been connected for the space of fifty years," he bequeathes the sum of £1,000 for the purpose of founding a Bursary or Bursaries for students in the Faculty of Arts, on the conditions that may appear to the Senatus best for the interests of the University. The Senate have resolved to apply the annual proceeds to the support of two Bursars in Arts, each to hold his Bursary for three years, subject to the usual condition of attending two of the classes of the curriculum in each session; the Bursars to be appointed by competitive examination among students of the first year. Present value, £18 to each Bursar.

Bursars—\*James M'Lay, 1878; Robert A. Young, 1880.

JOHN CLARK (MILE-END) BURSARIES.—Founded in 1868, in accordance with the Trust Disposition and Deed of Settlement of the deceased Mr. John Clark, junior, thread manufacturer, Mile-End, Glasgow. By a

<sup>\*</sup> Vacant through lapse of time.

Deed of Constitution of date 1st August, 1866, the "Clark Bursary Fund" is placed under the management of twelve trustees. The Bursaries are to be at least two in number, of the annual value of £30, open for competition to all Protestant students of good moral character, sons of Protestant parents, entering on their first session in the Faculty of Arts (a preference, cateris paribus, given to orphans), and are tenable for four years, subject to the condition that the Bursars proceed through the curriculum of Arts in Glasgow University. The competition is to be in writing, and the Trustees are to appoint the subjects of examination. The Bursary fund consists of the residue of the Testator's estate. Four Bursaries on this foundation will be competed for in November, 1881.

Bursars—\* James W. Inglis, 1877; \* Charles Steele, 1877: \* James Fleming, 1877; James G. Davidson, 1878; George G. Paton, 1878; John Weir, 1878; William B. Moyes, 1878; Maitland H. Park, 1879; Hugh F. Callan, 1879; Hugh Ashcroft, 1879; James B. Grant, 1879; David Wilson, 1880; Norman Fraser, 1880; James Strachan, 1880;

Alexander White, 1881.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS.—See under "Scho-

larships."

COWAN BURSARIES (AYR ACADEMY).—These Bursaries were founded by the late David Cowan, Esq., of Auchendrane, who bequeathed to the Directors of Ayr Academy the sum of Two Thousand Pounds, to be invested and held by them in trust, and the annual income thereof applied as Bursaries, to promote the education of two students, one at each of the Universities of Edinburgh and Glasgow, who shall have received their previous education, or part of it, at Ayr Academy. Founder further directed by his will that candidates should undergo a Competitive Examination, and that the tenure of the Bursaries should be for two years. The Bursaries are two in number, of the annual value of £35 sterling each, and are open to all students of either the Fifth or the Sixth Class (Classical Section) in Ayr Academy who have attended that institution for at least two sessions before the date of the competition. On a vacancy, intending candidates must send in their names and addresses to the Secretary on or before the fifteenth day of October; and the Senate of the University of Glasgow undertakes the examination of candidates who offer themselves for the Bursary to be held at this University.

No student who has gained a Cowan Bursary shall hold along with it any other Bursary. Each holder of a Cowan Bursary shall, during his tenure thereof, give attendance each session in two or more of the classes in the Faculty of Arts necessary for the Degree of M.A.; and previous to enrolling himself as a student in any of these classes, he shall, if required to do so, intimate to the Secretary of the Academy or to the Rector the particular course of study which he wishes to follow while holding the Bursary, that the same may be approved of by the

Directors.

Further information will be afforded by the Secretary, Mr. W. F. M'Cubbin, Ayr.

Bursar—(At Glasgow University), \* James Meikle, 1879.

CRAIG BURSARY.—Founded by Mr. John Craig, merchant in Glasgow, in 1697, for students in Philosophy. Tenable for four years. Preference to kindred of Founder, and students of name of Craig. Value, £8 6s. 8d. per annum, increased by the Patrons in 1880 to £25. Appointment by the Merchants' House.

Bursar—James Craig, 1879.

Crawfurd or Bishop's Bursary.—Founded by Capt. Thos. Crawfurd, of Jordanhill, in 1576. Appropriated to a student in Languages. Tenable for four years. Value, a chalder of meal  $(\pounds14)$  per annum. The Patrons are the Principal and Professors of the University.

By ordinance of the University Commissioners, 7th June, 1862, this Bursary is placed upon the same footing as the Forfar Bursaries (for

which see p. 130).

Bursar—James Barr, 1880.

Duncan's Bute Bursaries. — Founded in 1875, for the benefit of natives of the island of Bute, by Mr. James Duncan of Valparaiso, and afterwards of Rothesay, who, by his will of date 19th October, 1874, bequeathed £2,000 for this purpose. The Trustees and Patrons are the Principal, the Professor of Mathematics, the Professor of Natural Philosophy, and the Provost of Rothesay, all for the time being. Candidates must be natives of the island of Bute, and must be entering on their first or second session in the Faculty of Arts at the University. The Bursaries are two in number, tenable for four years; but the Patrons may in each case continue the Bursary for a fifth year to assist a student who may have been assiduous in his Academical studies, in private study, or in Continental travel, or other pursuits conducive to relaxation, combined with enlargement of his experience of men and things. Examination is in the same subjects and at the same time as the Examination for the other competition Bursaries. There is a preference cæteris paribus to the name of Duncan, in such degree as the Patrons shall determine; in other cases of equality the Bursary may be divided. Present value, £35 to each Bursar.

Bursars—John A. Mackay, 1877; David A. M'Nab, 1880.

DUNDONALD BURSARIES.—In 1672, William, Earl of Dundonald, founded seven Bursaries—four in Philosophy and three in Divinity. The Philosophy Bursaries are tenable for four years; the Divinity Bursaries for two years.

The Bursars in Philosophy receive £40 each per annum, and those in Divinity £41 2s. 6d. The appointment is now vested in the Duke of

Hamilton.

In 1858, the surplus funds of this foundation having greatly accumulated, an Act of Parliament was obtained authorizing an increase in the number of Bursars, but providing that the total number of Bursars in Philosophy shall, at all times, bear to the number of Bursars in Divinity the proportion of four to three, as nearly as may be. The Bursaries are now fourteen in number—eight in Philosophy and six in Divinity.

Bursars in Philosophy—\*Robert W. Wallace, 1880 (1877); † Alexander R. Barlas, 1879 (1878); Joseph Downs, 1879 (1878); Robert M. Paterson, 1878; Robert H. Stevenson, 1879; Douglas Hamilton Taylor,

1880; John Moir, 1880; Colin D. Macdonald, 1880.

<sup>\*</sup> Vacant through lapse of time.

James Ewing Entrance Bursaries.—Four in number, founded in 1879, by the Merchants' House of Glasgow, in accordance with the Deed of Endowment of the late Mr. James Ewing of Strathleven. The Directors resolved to apply annually £80 of the income of his legacy of £10,000 "for educating, training, and settling in business the sons of decayed Glasgow merchants" in entrance Bursaries of £20 each. The Bursaries are tenable for four years by students giving regular attendance on classes in the Faculty of Arts. Open to first year's students. The appointments to these Bursaries will be made in accordance with the results of the annual Bursary competition at the commencement of the session; candidates to be qualified as above. Applications to be lodged with Wm. H. Hill, Esq., clerk of the Merchants' House, on or before 1st September in each year.

Bursar—Thomas Hunter, 1880. (One vacancy.)

Forfar Bursaries.—Founded by the Countess of Forfar in 1737, and foundation remodelled by the Universities Commissioners, by ordinance of 31st May, 1862. There are now four Forfar Bursaries in the gift of the Senate; the holder of each to receive £20, if the funds allow. These Bursaries are open for competition to all students entering the first or second session of attendance in the Faculty of Arts, and are tenable for four years; subject to the condition that the Bursar shall pass the examinations required of students proceeding to the degree of M.A.

Bursars—\* Duncan Brown, 1877; Douglas Dunlop, 1879; Walter Wingate, 1880.

FOUNDATION BURSARIES.—These Bursaries, four in number, were founded by JamesVI, in 1577, for students in Languages and Philosophy. The value of each is £10 per annum. The right of presentation belongs to the Senate. By ordinance of Universities Commissioners, of date 7th June, 1862, these Bursaries are put upon the same footing as the Forfar Bursaries (for which see above).

Bursars—\*John Struthers, 1879 (1877); John Mack, 1878; John

Wemyss, 1879; Charles C. Grant, 1880.

FULLARTON OF OVERTON BURSARIES.—By deed of mortification and constitution, dated 22nd December, 1877, the Executors of the late John Fullarton, Esq., of Overton, West Kilbride, Ayrshire, in pursuance of his Trust Disposition and Settlement and codicils, assigned to the Principal and Professors of Glasgow University, as Patrons, the residue of his estate, amounting to £2604 17s. 7d., for the purpose of founding five Bursaries, more or less, each of the annual value of at least £10 but not exceeding £30. The Bursaries are tenable for two years by students in Arts under 25 years of age, belonging to or resident in the district of Cunninghame, in Ayrshire, children of parents whose means and social position are not above those of tradesmen, small farmers or shopkeepers, or others who may be struggling to secure their better education, and are by themselves or with such assistance as they may be able to get from their parents or relations unable to provide for the expenses of a University education. The Bursaries are awarded by competitive examination in Latin, Elementary Mathematics, and English; but no candidate is eligible who has attended any University for more than one

session. A Bursary may be divided between two candidates of equal or nearly equal merit, but as between a candidate who has not previously attended any University and a candidate who has so attended, the former is preferred. A Bursar may attend each session one or more of the classes in the Faculty of Arts, the selection of classes being left to his own option. The estate is in the meantime burdened with annuities amounting to the sum of £40 sterling. Any accumulations through vacancies are added to the capital sum.

Bursars—\*Archibald S. Laidlaw, 1879; Robert Tarbert, 1880; James

Mackie, 1880; John M. Wilson, 1880. (Two vacancies.)

GILCHRIST BURSARY.—Founded by Mr. John Gilchrist, in 1700, for a student in Philosophy, being the son of a tradesman freeman in the Burgh of Glasgow. Preference to names Gilchrist, Bryce, and Boyd. Value, £8 per annum. Appointment by the Trades' House.

Bursar-Andrew Stewart, 1879.

HANNAY BURSARIES.—Three in number, founded in 1865 by Mr. Anthony Hannay, merchant, Glasgow, in memory of his deceased wife. To be awarded to young men not under fourteen, and not above nineteen years of age, who are about to commence their studies in the Arts classes, with a view to the Holy Ministry in connection with any of the Evangelical Religious Denominations in Scotland, and who shall engage to attend during each of the first three years of the curriculum not fewer than two classes. The principal qualifications of those to be selected are good moral character, promising talent, a fair preliminary education, and a want or deficiency in the necessary pecuniary means for pursuing a University education. Candidates for these Bursaries are required to submit themselves to the annual Bursary Examination at the commencement of the Winter Session of the University of Glasgow, or such other Examination as the Trustees may appoint; but the result of said Examination shall only be taken as one of the tests in judging of the merits of the applicants. The Bursaries to be bestowed for three yearsone to be given each year. Value, about £15 per annum each. The appointment is vested in the Principal, the Dean of the Faculty of Procurators in Glasgow and the President of the Faculty of Physicians and Surgeons in Glasgow. Applications to be made to Mr. Robert Brodie, 87 St. Vincent Street, and also to the Assistant Clerk of Senate, not later than 1st October.

Bursars—\*Alexander Cameron, 1878; William Kilpatrick, 1879;

Archibald J. Macnicol, 1880.

HASTIE BURSARIES.—In 1772, the Rev. Mr. Hastie founded a Bursary for a student in this University. By an addition since made to the foundation, the number of Bursaries is increased to three, two in Divinity

and one in Philosophy.

By ordinance of the Universities Commissioners, 31st May, 1862, there are three Bursaries on this foundation, each £20 in value: one in Arts, tenable on the same conditions as the Forfar; the other two in Theology, open to competition to all Masters of Arts of any of the Scottish Universities entering upon the first or second year in Divinity, and tenable for three years.

Bursar in Philosophy-\*James R. Watson, 1877.

Howison Bursaries.—Founded in 1613 by the Rev. John Howison, of Cambuslang. The Bursar to be a qualified scholar of honest name and good report, son of a craftsman of Glasgow, whom failing, any other qualified scholar selected by the Patrons. Annual value, £9. Appointment by the Trades' House. "The Bursar to pass his course within the College."

Bursar-

HYNDFORD BURSARY.—Founded in 1617, by Mr. Michael Wilson, for a student in Philosophy. Tenable for four years. Value, £6 13s. 4d. per annum. The right of presentation belongs to the representative of Sir James Carmichael, who is at present Sir W. C. Anstruther, Bart.

Bursar-John H. Miller, 1880.

JOHN FERGUSON JAFFREY BURSARY IN MENTAL PHILOSOPHY .-This Bursary, founded in 1877, is of the annual value of £32 10s., and is open for competition to students entering on their third session of attendance at the University.\* Candidates are examined in such subjects in English Literature and Logic as may be fixed by the Senate. The Examiners are the Professors of English Literature, Logic, and Moral Philosophy. The Bursary is tenable for two years. The Bursar, immediately on gaining the Bursary, must enter one or more of the classes of English Literature, Logic, and Moral Philosophy; and he must complete attendance on those classes within two years of his tenure. so as to enable him to pass the examination for the certificate in the Department of Mental Philosophy. This certificate he is required to take. The Bursar will be required during his tenure to attend, besides the above classes, at least one of the higher classes in connection with the classes of Logic and Moral Philosophy. The subjects of examination are—Whately's Logic, Introduction and Analytical Outline; Reid's First Essay on the Intellectual Powers; Spalding's English Literature, pp. 169-269; Milton's Paradise Lost, Book I.; Zeller's Socrates and the Socratic Schools (translated by Reichel), pp. 1-200.

Bursar—† James Paterson, 1879.

MALCOLM KERR BURSARIES.—Two in number, founded in 1874, and consisting each of half the free annual proceeds of a sum of £1,000, bequeathed by the late Mr. Malcolm Kerr, stationer in Glasgow. One of the Bursaries is in Natural Philosophy, the other in Chemistry. The Bursaries are given on examination, and are tenable for three years, provided the Bursars continue for so long to prosecute in the University Laboratories, to the satisfaction of the Senate, the study of Natural Philosophy and Chemistry respectively. The subjects of examination in Natural Philosophy are the same as those for M.A. with Second Class Honours; and in Chemistry, the same as those for M.A. with Honours in Natural Science. Present value, £18 to each Bursar.

Bursar in Natural Philosophy—†William A. F. Crawford, 1880 (1879).

(Bursary in Chemistry vacant.)

<sup>\*</sup> A student who, having passed the Preliminary Examinations in Latin and Greek, has attended one session, ranks as a third year student.
† Vacant through lapse of time.

Lamb Bursary.—Founded in 1863, by the late Rev. Dr. William Lamb, Minister of Carmichael, and appropriated to a student in Arts or Divinity. Bursar appointed by the Minister and Kirk Session of Carmichael, and a preference given to any applicant in the parish of Kirkmichael or Pittenain, whom failing, one may be chosen from any other parish in the Presbytery of Lanark. Value about £11 per annum. Bursar—James Young, 1878.

LEADBETTER BURSARY.—Founded in 1855, by Mr. John Leadbetter, merchant, Glasgow. It is £9 in value and tenable for four years; the Bursar attending Greek and Latin the first year; Logic and Mathematics the second year; Moral Philosophy and Mathematics the third year; and Natural Philosophy the fourth year. Preference to boys who have attended five years' Classical Course in the High School. Patrons—the Lord Provost and Magistrates.

Bursar—William Brunton, 1879.

John Leyden Bursary.—Founded in 1879 by the Glasgow Border Counties Association in memory of John Leyden, poet and scholar. The Fund at present consists of the sum of £429 3s. 8d. raised by subscription, but as no appointment will be made till 1882, it is hoped that by interest and additional subscriptions the Fund will be increased to £600. The Bursary will be open to free competition under the same regulations as the competition Bursaries in the University. Tenable for three years. The holder to pass through the Arts course, and at the termination thereof to take the degree of M.A.

LORIMER BURSARIES.—By Trust Disposition and Settlement, of date 17th October, 1872, the late Mr. John Lorimer, merchant in Glasgow, directed his Trustees to make over to the Principal and Professors of the University of Glasgow, the residue of his estate, amounting to the sum of £8,594 5s. 5½d., the annual proceeds of £5,000 thereof to be applied in payment of Bursaries of an amount not exceeding £50 each, and tenable for three years. One Bursary at least is to be payable to a matriculated student of each of the following subjects—(1) Theology; (2) Philosophy; (3) Medicine; (4) Mathematics, and the proceeds of the remainder of such residue are to be applied in payment of smaller Bursaries tenable by students of the above-mentioned subjects.

The following regulations have been adopted by the Senate—

1. The Bursaries shall be sixteen in number—namely, eight of the annual value of £25, and eight of the annual value of £18, and shall be

tenable for three years.

2. Four Bursaries—viz., two at £25, and two at £18, shall be held by Students of Theology, and shall be open to competition to students entering the Divinity Hall. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the

Examinations for the degree of B.D.

3. Four Bursaries—viz., two at £25, and two at £18, shall be held by Students of Medicine, and shall be open to competition to students who have attended the first session of their professional study in the University of Glasgow, and who have passed in all the seven subjects of the examination in General Education for M.B., or who possess

such a degree in Arts as is recognized by the University as exempting from an examination in General Education. The subjects of examination, which shall be prescribed by the Medical Faculty, are Elementary Anatomy, Elementary Chemistry, and Botany. The second moiety of the third year's Burse shall not be paid until the Bursar shall have passed his Final Professional examination for the degree of M.B.

4. Four Bursaries—viz., two at £25, and two at £18, shall be open for competition to students entering on their third session of attendance at the University. Candidates shall be examined in such subjects in

English Literature and Logic as may be fixed by the Senate.

The Examiners shall be the Professors of English Literature, Logic, and Moral Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment, he must enter one or more of the classes of English Literature, Logic, and Moral Philosophy, and in the course of his tenure of his Bursary must attend, besides the above classes, one or more of the higher classes in connection with the classes of Logic and Moral Philosophy. The second moiety of the third year's Burse shall not be paid until the Bursar shall have obtained a Certificate in the Mental Philosophy department for a Degree in Arts.

5. Four Bursaries—viz., two at £25, and two at £18, shall be open for competition to students entering on their third session of attendance at the University. Candidates shall be examined in such subjects in Mathematics as may be fixed by the Senate. The Examiners shall be the Professors of Mathematics and Natural Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment he must enter the Class of Mathematics, and prosecute the course of study required for obtaining a Certificate in the Mathematical department for a Degree in Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have obtained this Certificate.

In session 1881-2 eight of the above £18 Bursaries will be open to competition—viz., two in Theology, two in Medicine, two in English Literature and Logic, and two in Mathematics. The Bursaries in Theology will be decided by the results in the general competition for Bursaries in Theology. The competition for the Bursaries in Medicine will be held along with the examinations for the Rainy Bursary. For the Bursaries in English Literature and Logic the subjects of examination will be those prescribed for the John Ferguson Jaffrey Bursary (see p. 132), and the examination will take place along with the November examinations for M.A. in English and Logic. The examination for the Bursaries in Mathematics will take place along with the preliminary examinations in Mathematics for M.A., but may embrace higher papers.

Bursars—William Muir, 1880 (Phil.); David Murray, 1880 (Math.);

(Four vacancies in Arts.)

Lusk Bursary.—Founded in 1876, in accordance with holograph settlement executed by Mr. Robert Lusk, merchant in Greenock, who bequeathed the sum of £1,000, reduced by legacy duty to £900, for "a Bursary in connection with the Glasgow University, to be given to the most successful student attending the preparatory course of studies in said University who may intend to follow out the ministry

in connection with any of the Presbyterian bodies in Scotland," "and who may, on public examination or competition, be found to be best qualified and most deserving." The competition is open to first or second year's students in Arts. Tenable for three years, but may be continued for an additional year. Present value, £33 per annum.

Bursar—Thomas S. Donald, 1880.

MacGrouther Bursaries.—Two in number, founded in 1872, the one by Mrs. Sophia Susan MacGrouther, widow of Mr. James MacGrouther, of Leigham Court Road, Streatham, Surrey, who mortified in favour of certain trustees the sum of £500; the other by the Misses Mary and Jane MacGrouther, residing in Glasgow, his sisters, who also mortified in favour of the same trustees the sum of £500, for the purposes of the foundation, and in memory of, and in fulfilment of the intentions of, the said James MacGrouther. The Senate are the Patrons. The Bursaries are awarded by open competition among students entering the Faculty of Arts for the first time, and are tenable for four years, and on the same conditions as the Forfar Bursaries. (See p. 130.)

Bursar—Robert A. Moody, 1879; (one vacancy).

MERCHANTS' HOUSE BURSARIES.—Founded in 1879, by the Merchants' House of Glasgow. The Bursaries are of the annual value of £25 each, and are four in number—viz., two in Medicine, one in Arts, including Engineering and Mechanics, and one in Law, tenable by students attending the requisite classes in the above Faculties, with a preference to the sons of matriculated members of the Merchants' House, and such others as the Lord Dean and Directors may deem deserving. 1. The Bursaries in Medicine are tenable for four years. Candidates must be entering on their first winter session of attendance on the ordinary curriculum for Medical Students. 2. The Bursary in Arts, including Engineering and Mechanics, is tenable for four years. Candidates must be entering on their first session of study, and must attend each session two at least of the classes in the Arts curriculum, including, at the option of the candidate, the class of Civil Engineering and Mechan-3. The Bursary in Law is tenable for three years. Candidates must be entering on their first session of attendance on the classes in the Faculty of Law, and must give regular attendance for the three years on classes in that Faculty. The subjects of examination for the above Bursaries will be those prescribed for the General Bursary Competition, special importance being given in the examination for the Arts Bursary to the subject of Mathematics.

The Bursary in Law will be competed for in November, 1881. Names of candidates to be given in to Wm. H. Hill, Esq., Clerk of the Mer-

chants' House, not later than 1st September. (One vacancy.)

METCALFE BURSARIES.—Founded by the late Miss Sarah Metcalfe, Glasgow, who, by her deed of settlement and codicils, dated respectively 8th August, 30th September, and 7th October, 1853, bequeathed, subject to the liferent of her brother, Mr. William Metcalfe, certain properties in Glasgow, "for encouraging poor students in prosecuting the studies of Mathematics, Practical Astronomy, Chemistry, and Civil Engineering." Mr. Metcalfe died on 25th Jan., 1869, and by resolution of date

Cantidale the year won has

14th April, 1870, the Senate instituted, besides a Metcalfe Fellowship of £100 annual value (for which see p. 158), at least two Metcalfe Bursaries or Scholarships,\* each of the annual value of £25, and tenable for two years, subject to the condition that the scholar attend the four classes of Civil Engineering, Senior Mathematics, Practical Astronomy, and Chemistry: two at least of these classes to be taken each year. The scholars to be appointed by examination in Pure Mathematics, including the Elements of Plane Trigonometry, of Mechanics, and of Theoretical Astronomy, from among matriculated students entering the senior class of Mathematics, or the class of Chemistry.

Bursars—†Robert Mitchell, 1879; †John Buchanan, 1879; William

Weir, 1880; Alexander M'Queen, 1880.

Muir Bursaries.—Founded in 1880, in terms of the Trust Disposition and Settlement and Codicil thereto of the late Mr. Matthew A. Muir, merchant in Glasgow, who bequeathed to the Senatus Academicus of Glasgow University, free of legacy duty, the sum of £1,000 for providing a Bursary in connection with the Chair of Divinity, to be awarded to a student of Divinity during the last three years of his curriculum; a sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Mathematics, to be awarded to advanced students in Mathematics, the period of tenure to be fixed by the Senate; and a further sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Civil Engineering and Mechanics, to be awarded to advanced students of Engineering and Mechanics, the period of tenure to be fixed by the Senate.

The following are the rules and regulations for these Bursaries:—

1. Muir Bursary in Divinity.—Candidates must be entering on their first session in Theology in the University, and the appointment to the Bursary shall be determined by the result of the annual competitive examination for Bursaries in Theology. The competition shall be open to candidates holding a Degree in Arts in any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. The Bursary shall be tenable for three years, but the second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations for the Degree of Bachelor of Divinity.

2. Muir Bursaries in Mathematics.—Two in number, of which the Junior Bursary shall be tenable for two years, and the Senior Bursary for one year, the former being of half the annual value of the latter. The appointments shall be determined by the proficiency shown by the candidates in the earlier part of their Mathematical course, and the successful candidates shall prosecute the study of the Higher Mathematics during their tenure of the Bursaries. No candidate shall be allowed to hold both Bursaries at the same time. Should the Junior Bursary be resigned by the Bursar at the end of his first year of tenure, the Senate may make an appointment for the remainder of the period.

3. Muir Bursaries in Civil Engineering and Mechanics.—Two in number, and of equal value. The appointments shall be determined by the proficiency shown by the candidates in the earlier part of their Engineer

† Vacant through lapse of time.

<sup>\*</sup> In future there will be a competition annually for two Metcalfe Bursaries.

ing course. The period of tenure for each Bursary shall be the session of attendance on the Senior Class of Civil Engineering and Mechanics. Should a vacancy occur by reason of non-attendance of a selected candidate, the Senate may make an appointment for the remainder of the period. No candidate shall be allowed to hold both Bursaries.

4. The Senate reserve the right to withhold the Bursary in any case in which a satisfactory standard has not been attained by any of the

competitors.

5. Arrangements for carrying out these rules and regulations shall from time to time be made by the Senate, and notice thereof shall be

published in the University Calendar.

Arrangements for Session 1881-2.—Muir Bursaries in Mathematics.—The appointment to the Junior Bursary, tenable during sessions 1882-3, 1883-4, shall be determined by the results of the written examinations passed in the course of the session 1881-2 by the public students of the Upper Junior Class of Mathematics. The successful candidate shall, during session 1882-3, attend the Senior, and during session 1883-4, the Higher Senior Mathematical Class. The appointment to the Senior Bursary, tenable during session 1882-3, shall be determined by the results of the written examinations passed in the course of the session 1881-2 by the public students of the Senior Mathematical Class. The successful candidate shall, during session 1882-3, attend the Higher Senior Mathematical Class.

Muir Bursaries in Civil Engineering and Mechanics.—Candidates for the Bursaries tenable during session 1882-3 must be (a) students attending during session 1881-2 the Junior Class of Civil Engineering and Mechanics, who are also attending or have in a previous session attended the Senior Class of Office and Field Work, or  $(\bar{b})$  students attending during session 1881-2 the Senior Class of Office and Field Work, who are also attending or have in a previous session attended the Junior class of Civil Engineering and Mechanics. The appointments shall be made by consideration of merit shown during attendance on the Junior Class of Civil Engineering and Mechanics and the Senior Class of Office and Field Work, and by examination on the subjects of those classes, together with the following subjects in preparation for advancement in the Senior Class of Civil Engineering and Mechanics, viz.:—Differential and Integral Calculus in cases of powers of a variable when the index of the power is a whole numeric. Also-Relation between Neperian logarithms, common logarithms, and logarithms in general; and Specification of common logarithms. In the examination for one of these Bursaries proficiency in the subjects of the Junior Class of Civil Engineering and Mechanics, and for the other of them proficiency in the subjects of the Senior Class of Office and Field Work shall have the greater influence. The successful candidates shall, during session 1882-3, attend the Senior Class of Civil Engineering and Mechanics.

ORR-EWING DUMBARTONSHIRE BURSARIES.—Archibald Orr-Ewing, Esq., of Ballikinrain, M.P., by bond and foundation dated 19th September, 1877, bound and obliged himself, his heirs, &c., to pay to the University of Glasgow, and to the Senatus Academicus thereof, as trustees, the sum of £1,600 sterling, in seven annual instalments, payable at Martinmas in each of the years following, viz.—In 1878, £100; 1879,

£200; 1880, £300; 1881, £400; 1882, £300; 1883, £200; 1884, £100; to be held and applied for providing four Bursaries of £25 per annum each, tenable for four years, to be competed for in each of the years 1878, 1879. 1880, and 1881. The Bursaries are open only to candidates who have attended a Public Parochial, being an Ordinary Board School or Schools in one or more of the Landward Parishes of Dumbartonshire, or of the Parishes of Buchanan, Drymen, Balfron, Killearn, Fintry, Strathblane, Baldernock, and Milngavie, being Parishes in the Presbytery of Dumbarton, for the full period of four years immediately preceding the competitive examination for the said Bursaries, who shall at the date of such examination be under the age of 17 years complete, and who shall express their intention of forthwith entering the University of Glasgow and proceeding with the studies required for obtaining the Degree of Master of Arts from the said University, and shall actually enter the said University accordingly. Each of the said Bursaries shall, as a rule, be tenable for four years, but on condition that each Bursar shall, during or prior to his fourth session of attendance at the said University, have passed two out of the three departmental examinations for the said Degree of Master of Arts, wherein if he fail he shall forfeit all right to the said fourth year's payment of £25. Candidates will be examined in at least three of the following subjects, viz.: (1) English Language and Literature, (2) Mathematics, (3) Latin, (4) Greek, of which three subjects English Language and Literature must always be one. Should the examiners not consider the candidates to have passed an examination of sufficient value, or should a sufficient number of candidates not come forward, the Senatus shall offer in subsequent years additional Bursaries of £25 each. In the event of a Bursary becoming vacant otherwise than by lapse of time, the Senatus are to apply the funds thereby left at their disposal for the benefit of Divinity students belonging to Dumbartonshire.

Bursars—William Reynolds, 1878; William Hall, 1879; James Gifford, 1880; Alexander C. Martin, 1880; William W. Thomson, 1880. (Eleven vacancies.)

Patrick Bursaries.—Two in number, founded in 1860, by Mr. William Patrick, of Roughwood, W.S., the one consisting of the free annual proceeds of a sum of £2,000 of consolidated stock of the Glasgow and South-Western Railway, the other of the free annual proceeds of £1,000 of the same stock. They are tenable for two years, but may be continued for other two. Candidates must have gone through a course of education at some one of the Public Schools in the county of Renfrew, where a regular course of Classical Study is pursued, and must be in circumstances to render it desirable that they should have assistance in prosecuting their studies at the University. The Rector or Head Teacher of such Public School to grant a certificate to any number, not exceeding four of his best scholars, who shall be entitled to present themselves to the Principal and Professors as candidates for the Bursaries.

The examination is in Latin, Greek, Elementary Mathematics, and English.

*Bursars*—\*Hugh Stevenson (£80 Bursar), 1879; Archibald W. Bain, 1880 (£40 Bursar).

Glasgow Perthshire Society's Bursary.—Founded by the Glasgow Perthshire Society in 1873. Value £25, and tenable for three years. Open to competition to natives and sons of natives of the county of Perth, and also to sons of persons who are bona fide residents in that county, and have resided in it for not less than three years at the time of the competition. Candidates must be entering on their first year of attendance as students in the University of Glasgow, and the holder of the Bursary will be required to complete attendance on at least two of the classes in the curriculum of Arts in each session. Names of candidates to be sent in to Mr. George Gray, Writer, County Buildings, Glasgow, Secretary of the Society, not later than the first October preceding the competition.

Bursar—Henry Stuart Gemmel, 1879.

Pollock Bursaries.—Founded in 1878, in terms of the Trust Disposition and Settlement of the Rev. Alexander Pollock, Senior Minister of the Free South Church, Paisley, who bequeathed £3,000, free of legacy duty, for that purpose. The Bursaries are designed to assist young men entering the University of Glasgow whose circumstances are such as to render it desirable that they should have assistance in prosecuting their The Patrons are the Principal and Professors in the Faculty of Arts. Each candidate must lodge along with his application a letter from the Rector, Headmaster, or Classical Teacher of one of the Public Schools or Public Academies within the parliamentary boundaries of the burgh of Paisley, where a regular course of Classical Study is pursued, certifying that he has completed his course of education at such school or academy. Should no such qualified candidates present themselves. or should the otherwise qualified candidates fail to reach a satisfactory standard in the Bursary Examination, the Bursary or Bursaries vacant for the time being shall be open to all the candidates in the ordinary Bursary Competition. The Bursaries shall be three in number, and are tenable for three years, during which period the Bursars must be students in the Faculty of Arts. The second moiety of the third year's Burse shall not be paid until the Bursar shall have obtained at least two of the Departmental Certificates for the Degree of Master of Arts. (One vacancy.)

RAMSAY WALKER BURSARIES.—Two in number, founded in 1879, under the Trust Disposition and Settlement of Miss Ramsay Walker, Crosshill, who bequeathed £700, reduced by legacy duty to £630, for educating two students with a view to the ministry of the Established Church of Scotland. Preference to kindred of the founder, whom failing, to students of the name of Walker, whom failing, to natives of Glasgow, whom failing, the Bursaries will be thrown open to public competition. Candidates must be qualified by their previous education for entering the University. Tenable for four years.

Bursar-James S. Fisher, 1879; John C. Walker, 1880.

Ross Bursary.—The Bursary was founded in 1869, by Captain Wm. Ross, of Rosseyle. It is tenable for four years; and the appointment is vested in the Earl of Glasgow. Value, £4 3s. 4d. per annum, but increased by the patron to £25.

Bursar.—Andrew Halden, 1878.

Scott Bursaries .- Founded in 1874, along with the Scott Scholar-

ship, on occasion of the centenary of the birth of Sir Walter Scott; the Committee having resolved to employ the fund, raised by public subscription, which amounts to £3,500, "for the benefit of distinguished University students." The fund is administered by Trustees, two of whom are elected by the Senatus, two by the Merchants' House, one by the Faculty of Physicians and Surgeons, one by the Faculty of Procurators, and one being the Council's Assessor in the University Court, ex-officio. The Bursaries are two in number, each of the annual value of £25, and tenable for four years. They are open to free competition, under the same regulations as the competition Bursaries in the University.

Bursars—James Nicholson, 1879; Archibald M'Laren, 1879.

STEWART BURSARIES.—These Bursaries, four in number, founded in 1809, by the Rev. James Stewart, are in the gift of the Senate. They commence with the Humanity or Greek Class, and may be held during the Gown Course. Value, £15 per annum each. The names Stewart and Simpson are preferred. In case of a vacancy, a student of the same standing is appointed.

Bursars-Robert H. Paton, 1879 (1878); Hugh M. Guthrie, 1878;

Robert M. Stewart, 1880; William Stewart, 1880.

GLASGOW STIRLINGSHIRE AND SONS OF THE ROCK SOCIETY'S BURSARY.—Founded in 1876 by the Glasgow Stirlingshire and Sons of the Rock Society. Value, £25 per annum, and tenable for five years. The Bursary is open to competition to "all students who have been born and educated in the County of Stirling." Candidates must be entering on their first session of attendance in the Arts Classes. Secretary of the Society, Mr. James Low, 176 St. Vincent Street, Glasgow.

Bursar.—\*William Laing, 1876.

James Thomson Philosophical Entrance Bursary.—Founded by subscription in 1878 in memory of James Thomson, M.A., a distinguished student of this University, who died before the close of his theological curriculum in 1876. The Bursary consists of the proceeds of a sum of about £300, and is tenable for two years. It is awarded biennially for the best examination in (a) Mental Philosophy and (b) English Literature alternately, the candidate being at liberty to offer a special subject. The examination is open to all students of the first and second year who have not already attended any class in the Philosophical Department, and who have not attended a session in any other Scottish University. The Bursary is payable in four instalments, but the last instalment will not be paid till the Bursar has passed the Departmental Examination in Classics for the M.A. Degree in Glasgow University.

The next examination will be held in November, 1882, the subject of

examination being English Literature. Bursar—James W. Robbie, 1880.

B.-BURSARIES IN THE FACULTY OF THEOLOGY.

JOHN ADAM BURSARIES.—Three in number, founded by Mr. John Adam, of the Inner Temple, who died in 1836. They are open to competition to Students in Theology of the first year; and after examination,

are adjudged to the three students who shall be declared to be the most deserving, and to have made the highest attainments in Latin, Greek, Logic, Moral and Natural Philosophy, and Mathematics. In appointing to one of the Bursaries, there is a preference, cæteris paribus, to the kindred of the founder, and to students of the name of Adam or Dollar. The trustees and patrons are the Principal, the Professor of Theology, and the five Professors of the Gown Classes. These Bursaries are tenable for four years. Value, £15 to each Bursar.

Bursars-\*Geo. Macnaughton, 1878; \*James G. Baillie, 1878; John

Henderson, M.A., 1880.

BLACK THEOLOGICAL BURSARIES.—Founded by Mrs. Janet Black, who died in 1876, in memory of her husband, William Black, D.D., Minister of the Barony Parish of Glasgow. The Bursaries are entrance bursaries, two in number, each of the annual value of £40 or thereby, tenable for three years. The competition is open to candidates holding a degree in Arts in any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

Bursars—†Donald Macmillan, 1878; Archibald R. S. Kennedy, 1880.

BOYD BURSARIES.—In 1635, Mr. Zachary Boyd founded three Bursaries for students in Divinity, tenable for two or four years. Value, £5 10s. per annum each. The patrons of two were the members of the City Council; and the appointment of the third was vested in the Merchants' House of Glasgow. Preference to burgesses' sons, particularly of the name of Boyd.

By ordinance of the Universities Commissioners, of date 17th May, 1862, the two Bursaries in the gift of the Town Council were conjoined into one, tenable for three years; the Bursar to be M.A. The Bursary in the gift of the Merchants' House is now combined with the Sanders

Bursary, see below.

Bursar—(Town Council)—Alexander Cameron Watson, M.A., 1880.

BOYD AND SANDERS BURSARY.—The Boyd Bursary (see above), value £5 10s. in the gift of the Merchants' House of Glasgow, and the Sanders Bursary, value, £8 6s. 8d., founded in 1728 by Mr. Robert Sanders of Auldhouse, also in the gift of the Merchants' House, were, by an order obtained under the authority of the Endowed Institutions Commission in 1880, conjoined into one Bursary of £13 16s. 8d. per annum, tenable for not more than three years, by a student attending the ordinary curriculum in the Faculty of Theology at the University of Glasgow. There is a preference, cæteris paribus, to the names Boyd, Sanders, Corbet, Colquhoun, and Wardrop. Applications to be lodged with Wm. H. Hill, Esq., clerk of the Merchants' House.

Bursar-Allan Arthur, 1880.

Brown or Ettles Bursaries.—Two in number, founded in 1867, by Miss Ettles, of Inverness, in memory of her brother-in-law, the late Dr. E. Brown, an alumnus of this University. The Bursaries consist of the annual interest and proceeds of a sum of £1,000, and are open to competition to first year's students of Divinity who have passed all the

<sup>\*</sup> Bursar's Course finished. † Vacant through lapse of time.

examinations required for the ordinary degree of M.A.; with a preference, cateris paribus, to such as can speak Gaelic. The Bursaries are tenable for three years.

Bursars—George Dods, M.A., 1879; James Miller, M.A., 1880.

Dundonald Bursaries.—(See under "Faculty of Arts," p. 129.)

Bursars in Divinity—\*Hugh Macmaster, 1879; \*Donald Macfarlane,
1879; \*James D. W. Gibson, 1879; James C. Higgins, M.A., 1880;
David G. Manuel, M.A., 1880; Benjamin Denoon, M.A., 1880.

GILHAGIE BURSARY.—Founded in 1753, by Mrs. Agnes Gilhagie, for a student in Divinity. Tenable for four years. Value, £6 6s. per annum. Appointment by the Magistrates, Town Council, and Ministers of Glasgow.

Bursar—Robert A. Spark, 1880.

HASTIE BURSARIES.—(see under "Faculty of Arts," p. 131.) Bursars—\*James Kirkland, 1878; \*William Stevenson, M.A., 1878.

LAMB BURSARIES.—(see under "Faculty of Arts," p. 133.)

Logan Bursaries.—Two in number, one in Divinity and one in Medicine, founded in 1863, by Mrs. Logan, widow of Mr. William Logan, tinsmith in Glasgow. The Bursary in the Faculty of Divinity is tenable for three years, and the one in the Faculty of Medicine for four years. A preference is given to the names Logan and Johnstone. The value of each is £15 per annum. Appointment by the Senate.

Divinity Bursar—\*David Baird, 1878.

LORIMER BURSARIES.—(See under "Faculty of Arts," p. 133.)

\*\*Rursar in Theology\*\*—William G. Duncan, M.A., 1880. (Two vacancies.)

Bursar in Theology—William G. Duncan, M.A., 1880. (Two vacancies.)

Lumsden, stationer, Glasgow. Value, £15. It is given to a Divinity student of the first year, and may be held for four years. There is a preference to sons of members, or of deceased members of the Stationers' Company of Glasgow.

Bursar—George Caldwell, 1878.

Marshall Bursaries.—Mrs. Barbara Lauder or Marshall, relict of Alexander Marshall, wholesale stationer, Bell Street, Glasgow, by her will, dated 8th December, 1874, bequeathed to the Senatus of Glasgow University the sum of £1,000, under deduction of legacy duty, to found two Bursaries of equal value, one in Divinity and the other in Medicine. Tenable for four years. Preference to the name of Marshall, but provided "that the Principal and Professors shall nominate and appoint such students only to the said Bursaries as they shall find on such examination as they may appoint to be properly qualified for entering upon the study of Divinity and Medicine at the said University." Present value, £17 per amum to each Bursar.

Bursar in Divinity.—+John Herkless, 1878.

MUIR BURSARY .- (See under "Faculty of Arts," p. 133.)

<sup>\*</sup> Vacant through lapse of time.

<sup>†</sup> Bursar's course finished.

Notman Bursary.—By Deed of Settlement dated 15th August, 1876, Mrs. Margaret Adam Notman or Napier, of Hillhead, Glasgow, widow of Mr. William Napier, directed her executors to pay over to the Principal and Professors of the Glasgow College, the sum of £500 sterling, for the purpose of founding a Bursary in the College, to be called the Notman Bursary, in memory of her father and brother. The Bursar to be a student of Divinity, who shall appear in public examination to be best qualified and deserving. Present value, £16, 10s. per annum.

Bursar—\*William Kean, M.A., 1878.

JOHN ROSS JUNIOR BURSARY.—Founded in 1880, by Mrs. Ross, widow of Mr. John Ross, Junior, merchant in Glasgow, in memory of her husband. Patrons, the Professors in the Faculty of Theology. The Bursary Fund consists of the capital sum of £1000, set aside by Mrs. Ross for that purpose. The Bursary is tenable for three years by a student of Divinity in the regular course of study for the degree of Bachelor of Divinity with a view of becoming a clergyman of the Established Church of Scotland. Candidates must be entering on their first session of their study in Theology in the University, and the award shall be determined by the result of the annual competitive examination for Bursaries in Theology. In cases of equality in the competition there is a preference to the student who may be thought to stand most in need of help to carry on his theological studies, or to one who is a native of Ayrshire. The second moiety of the third year's Burse shall not be paid to any Bursar unless and until he shall have passed all the examinations required for the degree of B.D. In the case of a vacancy occurring otherwise than by lapse of time the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar. The next competition will be held in November, 1881.

Bursar—+John B. Cumming, M.A., 1880.

SANDERS BURSARY .- (See Boyd and Sanders Bursary, p. 141.)

STRUTHERS BURSARY.—In 1624, the Rev. William Struthers founded two Bursaries for students in Divinity. Value, £6 13s. 4d. per annum each. By ordinance of the Universities Commissioners, of date 17th May, 1862, these Bursaries were conjoined into one, tenable for three years; the holder to be M.A. and a student of Divinity. All other restrictions were abolished. The right of nomination belongs to the Magistrates and Town Council of Glasgow.

Bursar—Wm. Reid, M.A., 1879.

WILSON BURSARY.—Two Bursaries, value £6, 13s. 4d. per annum each, were founded by Mr. Michael Wilson, in 1640. Patrons—The City

Magistrates and Council.

By ordinance of the Universities Commissioners of date 17th May, 1862, confirmed by Her Majesty in Council, these Bursaries were conjoined into one, tenable for three years; the holder to be M.A. in regular attendance as a student of Theology. Restrictions as to kindred &c., abolished.

Bursar—James Lindsay, M.A., B.Sc., 1879.

<sup>\*</sup> Bursar's course finished."
† Vacant through lapse of time.

# C.-BURSARIES IN THE FACULTY OF LAW.

Walkinshaw Young Bursary.—Founded in 1878 by Major Young, Dunmore, Kirn, who bequeathed to the University a sum of £500 free of legacy duty, for promoting any useful branch of Education which the Principal and Professors may think proper.

The following regulations have been adopted:—

1. The Bursary shall be tenable for two years, during which the holder shall give regular attendance as a public student in the Faculty

of Law in the University, to the satisfaction of the Senate.

2. All persons who within two years previous to the time when an appointment to the Bursary is made, have at an examination in Arts for the Degree of B.L. passed in not fewer than two Arts Subjects, or have passed a departmental Examination for the Degree of M.A., shall be eligible as candidates, and the Senate shall appoint that one among the candidates who in their opinion is the most distinguished. A student who passes a qualifying Examination in the November of the session in which an appointment is made, shall be held eligible within this rule, but one who has passed an Examination in the November two years preceding such appointment, and has not passed any subsequent qualifying Examination, shall not be eligible.

3. The Bursary shall not be tenable along with any other Bursary or

Scholarship in the University.

The next appointment to this Bursary will be made in December, 1882.

Bursar-James Macrae, 1880.

MERCHANTS' HOUSE BURSARY.—(See under Faculty of Arts, p. 135.) (Vacant.)

## D.-BURSARIES IN THE FACULTY OF MEDICINE.

BRISBANE BURSARY.—Founded by Miss Christian Brisbane, in 1777, in fulfilment of the intentions of her brother, Dr. John Brisbane, of Balbegno. Their father, Dr. Thomas Brisbane, was the first Professor of Anatomy in this University.

It is tenable by a student of Medicine for four years, and the salary is about £45 per annum. The family of Brisbane and the College present alternately. The applicant must be under twenty-two years of age, and

must have the Degree of M.A.

Preference is given to the kin of the founder. Bursar—James C. Herbertson, M.A., 1880.

MALCOLM KERR BURSARIES.—(See under "Faculty of Arts," p. 132.) (The Bursary in Chemistry is vacant.)

Logan Bursaries.—(See under "Faculty of Theology," p. 142.) Bursar in Medicine—\* Matthew S. Anderson, 1877.

Lorimer Bursaries.—(See under "Faculty of Arts," p. 133.) (Two vacancies.)

<sup>\*</sup> Vacant through lapse of time.

MACFARLANE BURSARIES.—Founded in 1874 by the brothers and sisters of the late Dr. John M'Farlane, Professor of the Practice of Medicine in this University, and in his memory. Patrons—The Medical Faculty. Value, about £40. Tenable for three years. The competition is open to students who have attended the first session of their professional study in the University of Glasgow, and who have passed in all the seven subjects of the examination in general education for M.B. The Examination will be held at the close of the first session of professional study. The subjects of examination to be prescribed by the Patrons; and the success of the candidates in the examination in General Education will form an essential element of the decision. Any surplus which may accumulate from vacancies or otherwise, to be applied to establish a "Macfarlane Prize" in the Class of Practice of Medicine. The subjects of examination for this Bursary are Elementary Anatomy, Elementary Chemistry, and Botany.

Bursar—John Yule Mackay, 1879.

MARSHALL BURSARY.—(See under "Faculty of Theology," p. 142.) Bursar in Medicine—Duncan Macartney, M.A., 1880.

MERCHANTS' HOUSE BURSARIES.—(See under "Faculty of Arts," p. 135.)

Bursar in Medicine—James Hinshelwood, M.A.

RAINY BURSARIES.-In 1872, Dr. Harry Rainy, Emeritus Professor of Medical Jurisprudence in this University, made over to the Senate the sum of £1,000 for the institution of two Bursaries in the Medical Faculty, and a further sum of £500 to be invested as a supplementary or augmentation fund. The interest of the Bursary fund is to be divided annually between the two Bursars; and the interest of the supplementary fund is to be employed towards defraying the expenses of administration, and bringing up, when necessary, the annual salaries of the Bursars to £20 each, and increasing the supplementary fund. Should this fund accumulate to £1,000, one-half of it is then to be added to the Bursary fund, the interest of which shall be divided as before between the two Bursars. If by this process of augmentation, which is to be repeated as often as the supplementary fund amounts to £1,000, the Bursary fund should at length yield £60 per annum to each Bursar, the Senate may continue the same process, or constitute additional Bursaries on the principle explained above, the original Bursaries remaining of the value to which they have been raised by augmentation. The augmentation fund is not at any time to be reduced below £500.

One Bursar shall be elected annually after competitive examination on the subjects of Anatomy, Chemistry, Botany, Physiology, and Zoology. The competition is to be open to all students who have completed two years of the regular Medical curriculum at the University of Glasgow, and who are about to commence their third Winter Session; and the

examination is to take place in the month of October.

The successful candidate may hold his Bursary for two years—namely, during his third and fourth years of study in the University of Glasgow. A vacancy occasioned by death, irregular attendance, or misconduct is not to be filled up till the usual term at which the competition for that Bursary would have fallen due, and accumulations from this source are to be added to the supplementary fund.

In 1881 the competition for one of these Bursaries will be held on 19th October. Candidates are required to give in their names (with certificates) to the Assistant-Clerk of Senate, on or before 1st October.

Bursars-\* John M. Young, M.A., 1879; Robert Beith, 1880.

Walton Bursary.—This Bursary was founded in 1763, by Dr. William Walton, Huntingdon, for a student in Medicine. The Earl of Sandwich has the right of appointing to the Bursary one of two students nominated by the Senate. Preference is given to "Students of the English Nation." The Bursary may be held for four years. Value about £36 per annum.

Bursar—Alfred Williams, 1880.

### E.-BURSARIES IN THE FACULTIES OF ARTS AND THEOLOGY.

ARDKINGLASS BURSARY.—Founded in 1733, by Sir James and Lady Campbell, out of a fund which Colonel John Blackader had by his will set aside for pious uses. Tenable for eight years—five in Languages and Philosophy, and three in Divinity. Patron, Mr. George F. W. Callander, of Ardkinglass and Craigforth. Bursar to be found duly qualified by Principal and Masters; and to take the degree of M.A., before passing to Divinity. Value, £9 10s. (Vacant.)

BAXTER BURSARY.—Founded in 1776, by Mr. Daniel Baxter, bookseller, Glasgow. The Patrons are the Principal, the Professor of Divinity, the Regents, the Magistrates, the Dean of Guild, the Convener, and the Ministers of the City. It is tenable for five years. Value, £8

per annum.

By ordinance of the Universities Commissioners, of date 12th July, 1862, restrictions as to parentage are removed; Bursar to pass such entrance examination as may be required by the Senate for the time of Presentation Bursars; to proceed through Arts Course, and pass the examinations for M.A.; and after obtaining the Degree, to give regular attendance as a student of Theology in the University. (Vacant.)

Buchanan (Bellfield) Bursaries.—Founded in 1875, in accordance with the trust disposition and deed of settlement of the late Misses Margaret Jane and Elizabeth Buchanan, of Bellfield, Glasgow. The Bursaries are two in number, and consist of the yearly proceeds of a sum of £4,200, vested in reduced 3 per cent. annuities. Open to matriculated students who may be prosecuting their studies at the University of Glasgow, with a view to their becoming licentiates and clergymen of the Established Church of Scotland. The Patrons are the Principal and such of the Professors as hold their appointments from the University Court. The Bursaries are tenable during the whole curriculum, "or such portion thereof as to the said Principal and Professors may seem proper." The Bursars are appointed by competitive examination among students of the first and second years in Arts. Present value, £53 per annum to each Bursar.

Bursars-Peter Donaldson, 1875; John A. Clark, 1876.

<sup>\*</sup> Vacant through lapse of time.

EXCHEQUER BURSARIES.—These Bursaries, six in number, were founded by King William III., in 1695. They are tenable for six years: the first in Logic, the second in Moral Philosophy, the third in Natural Philosophy, and the last three in Divinity. In case of a vacancy by death or otherwise, a student of the same standing with the late Bursar is appointed for the remainder of the time. The Bursars in Philosophy receive £10 per annum each, and those in Divinity £13, 6s. 8d. The Patrons are the Lords of the Treasury, who select one out of a list of six students transmitted to them by the Senate. (Regulated by Act of Parliament, 1758.)

Bursars—\* James Speirs, 1878 (1875); , 1880 (1876) (Divinity); 1880 (1877) (Divinity); Thomas E. S. Clarke, 1878 (Divinity); Charles D. Paton, 1879 (Nat. Phil.); 1880 (Mor. Phil.).

Hamilton Bursaries.—These Bursaries, now six in number, were founded by Anne, Duchess of Hamilton, in 1694. The conditions of tenure are exactly the same as in the case of the Exchequer Bursaries; see above. The Bursars in Philosophy receive £20, and those in Divinity £25, per annum each. The right of presentation is vested in the Duke of Hamilton. (Regulated by Act of Parliament, 1758.)

the Duke of Hamilton. (Regulated by Act of Parliament, 1758.)

\*\*Bursars\*\*—\*\*Robert Woodside, 1878 (1875); Robert B. Dickson, 1876 (Div.); James M. Campbell, 1877 (Div.); Alex. M'Nab, 1878 (Div.); William Rankin, 1879 (Nat. Phil.); James C. Walker, 1880 (Mor.

Phil.).

LEIGHTON BURSARIES.—Robert Leighton, Archbishop of Glasgow, founded in 1681 two Bursaries, at present of the value of £9 per annum each. They are tenable for four years in Philosophy, and two or three years in Divinity. On a vacancy, two students are nominated by the Town Council, and examined by the Senate, who prefer the best scholar.

Bursars—George Carson, 1878; William Wilson, 1878.

WILLIAMS BURSARIES.—The Rev. Dr. Williams, London, in the year 1711, bequeathed to certain individuals in London, in trust, an estate, to found Bursaries for educating natives of South Britain at the University of Glasgow. The founder, with a particular view to support the cause of Protestant dissent in England, directs that every Bursar on this foundation shall promise, in writing, to become a preacher among the Dissenting Ministers of that country. The Bursaries are tenable for three years, but renewable for another year on application, on the understanding that the student has graduated in Arts, and is about to enter the Divinity Hall. Value, £40 per annum each. The right of presentation is vested in the Founder's Trustees. Secretary to the Trust—Rev. Thomas Hunter, 16 Grafton St., E., London, W.C.

Bursars—\* Francis H. Stead, 1878; \* Charles E. Darwent, 1878 \* George Samuel, 1878; John O. Thomas, 1879; Arthur S. Howell, 1879; Edward James Gilchrist, 1880; William Rees, 1880.

<sup>\*</sup> Vacant through lapse of time.

# F.-BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.

Armagh Bursaries.—Three in number, founded in 1733, by Hugh Boulter, Archbishop ef Armagh, who endowed the College with the annual rent of certain lands in the neighbourhood of Glasgow. By ordinance of the Universities Commissioners, of date 17th May, 1862, these three Bursaries were raised from £15 to £25 per annum each (the funds having accumulated through vacancies), and the restrictions as to birthplace were removed. On each vacancy, the most distinguished Graduate in Arts of the year, who offers himself as a candidate, is appointed by the Senate.

The Bursaries are tenable for three years, during which the holders must give regular attendance on the classes of this University, as students of Theology, Law, or Medicine. One Bursar is appointed at the commencement of each session, and no appointment is made of more than one Bursar in the same year.

Bursars—\* Matthew P. Fraser, M.A., 1878; Andrew Rutherfurd,

M.A., 1879; James Simpson, M.A., 1880.

OLD LIBRARY BURSARY.—Founded by Mr. Hutcheson, of Lambhill, in 1641. Tenable for four years. Value, £11 2s.  $2\frac{3}{4}$ d. per annum. The Bursar must be M.A. Preference to a son of a burgess, particularly one of the name Hutcheson or Herbertson. The Patrons are the Magistrates and Town Council of Glasgow.

Bursar-James E. Houston, M.A., 1879.

#### G.-BURSARIES IN ANY FACULTY.

Glasgow Ayrshire Society, and consisting of the free annual proceeds of a sum of £500, subscribed by members of the Society, to be devoted to the establishment of one or more Bursaries in the University of Glasgow, and invested for that purpose. The Bursaries are tenable for not more than three years, and are open to applicants between the ages of 14 and 24, who are descendants of members of the Glasgow Ayrshire Society, or natives of Ayrshire, or sons of natives resident in Glasgow, who are in circumstances rendering the aid of a Bursary necessary or desirable. Patrons—the Directors and Office-bearers of the Society. Secretary, Mr. James Graham Girvan, 186 West George Street, Glasgow.

Bursars—Andrew Mitchell (£10 three years), 1879; William Muir

(£10 three years), 1879; Robert Logan (£15 two years), 1880.

Celtic Society's Campbell Bursary.—Founded in 1869 by the Glasgow Celtic Society. Value, at least £5. Tenable for one or more years by a native or son of a native of the Highlands of Scotland, not under 14 nor above 20 years of age, whose circumstances are such as to render aid important. A preference, cæteris paribus, to Gaelic-speaking students. Applications to be made to the Honorary Secretary, Mr. George Rennie, 38 West George Street, Glasgow, on or before 1st October in each year.

Bursar. - Neil John M'Lean, 1880.

<sup>\*</sup> Vacant through lapse of time.

Davidson Bursaries.—Founded in 1881, in terms of the trust disposition and settlement of the late Mrs. Eliza Ferguson or Davidson, of 6 West Bank Terrace, Hillhead, Glasgow, and consisting of the income of £2000, which the Senate are directed to apply, according to such rules as they have framed, or may from time to time frame, in perpetually maintaining two Students' Bursaries in the said University, of equal amount, the one in memory of her husband, John Davidson, surgeon, Newmilns, and the other in memory of her son, Francis John Ferguson Davidson; a preference being given, cateris paribus, to relations of the founder, and to young men natives of the parishes of Muirkirk, Dalserf, Lesmahagow, and Loudon.

The regulations for these Bursaries will be published in next year's

Calendar.

Denny Bursaries.—Four in number, founded in 1875 by Mr. Peter Denny, engineer and shipbuilder, Dumbarton. Value, not less than £30 per annum each, and tenable for four years. Open for competition to all students entering the University who have been pupils for two years or more at the Dumbarton Burgh Academy. One of the Bursaries will be competed for at the beginning of next session. The examination will be in the same subjects and at the same time as the examination for the other competition Bursaries. The Trustees are Mr. Peter Denny, Mr. John M'Ausland, the Principal and Professors, and the Assessor of the General Council in the University Court.

Bursars. - \*Alexander Anderson, 1877; Peter MacKenna, 1878; Hugh

Dickie, 1879; William Hay, 1880.

GLASGOW DUMFRIESSHIRE SOCIETY'S BURSARIES.—Two in number, the one founded in 1874 and the other in 1876. Value, £15 per annum each, tenable for four years. Consists of the annual proceeds of a sum invested for the establishment of Bursaries in Glasgow University, and subscribed by members of the Glasgow Dumfriesshire Society. The Bursaries are open to first and second years' students, between the ages of 14 and 21, who are either descendants of members of the Glasgow Dumfriesshire Society, or natives of Dumfriesshire, or sons of natives resident in Glasgow, whose circumstances render the aid of a Bursary necessary or desirable. Secretary, Mr. William J. Thomson, 86 St. Vincent Street, Glasgow.

Bursars.—James M'Millan, 1878; Hugh Sutherland, 1880.

James Ferguson Bursaries.—Two in number, founded in 1877, under provision of the trust disposition and settlement of the late James Ferguson, Esq., of Wiston, and consisting of the annual proceeds of a sum of £3,600. The Bursaries are tenable for two years in any of the three Faculties of Divinity, Law, or Medicine, or in the Department of Engineering Science. The Bursaries are awarded for special proficiency in Arts studies, according to the following rotation, viz.:—In November, 1878, and thereafter 'triennially, in Mental Philosophy, including English Literature; in November, 1879, and thereafter triennially, in Mathematics; in November, 1880, and thereafter triennially, in Classical Literature. The examination is the same as that for Honours in the corresponding department (with the addition in the case

<sup>\*</sup> Vacant through lapse of time.

of the Department of Mental Philosophy, of a paper on English Literature), at the annual examination for Degrees in November. Candidates must have completed the course of attendance required for admission to examination in the corresponding department for the Degree of M.A. Each Bursar must pursue the course of study for such Degree in Divinity, Law, Medicine, or Engineering Science, as he may, with approval of the Senate, select. In the event of a successful candidate not having completed attendance on the Arts classes necessary to qualify for the Degree of M.A., he shall be at liberty, without forfeiting his right to the Bursary, to continue his studies in Arts for two years, in order that he may complete his qualifications for graduation; but no part of the Bursary shall become payable until he has selected and entered upon a course of study in one of the three Faculties above mentioned, viz. :-Divinity, Law, or Medicine, or in the Department of Engineering Science. While the Bursary is tenable for two years of such course, the Bursar must continue his attendance on classes beyond the two years, if this be necessary for graduation or for receiving the Certificate of Proficiency in Engineering Science. The Bursar shall not receive payment of any half-yearly burse without such evidence as the Senate may require that he is faithfully pursuing the selected course, and shall not receive payment of the fourth half-yearly burse until he has graduated or received the Certificate of Proficiency in Engineering. Unless a candidate comes up to at least the standard of Second Class Honours, the Senate shall not be bound to award the Bursary. There is a preference, cateris paribus, to young men natives of the parishes of Lesmahagow or Muirkirk or the province of Pictou, Novia Scotia, and also to young men of the name of Ferguson or Weir, or to descendants and relatives of the founder.

Candidates for the Bursary to be competed for in 1881 will be examined in Mental Philosophy, including English Literature, on Saturday, 29th October, and Wednesday and Thursday, 2nd and 3rd November, at 10 A.M. each day. Names to be given in to the Assistant Clerk of Senate not later than 10th October.

Bursars.—\*James Hamilton, 1879; Cecil J. Swan, 1880.

FORREST BURSARIES.—Founded by Mr. William Forrest, of Easter Meadowhead, Drumgilloch, and Meadowside, by deed of mortification, of date 6th March, 1858. The Bursaries are five in number, each of the annual value of £22. Their object is to assist young men at the University who require aid, and give evidence of future eminence. to prosecute a course for some degree, and to attend at least two classes each session. Preference to students belonging to the parishes of New Monkland, Slamannan, and Shotts. The Trustees have it in their power to appoint for one year, or for any number of years not exceeding five, and they are disposed in the meantime to extend the period of tenure to three years in the case of Bursars who distinguish themselves in any one class, but in the case of those who do not distinguish themselves, they do not guarantee the grant for longer than one year. Patrons and Trustees—The Sheriff-Substitute of Lanarkshire at Airdrie, the Provost of Airdrie, and the Ministers of the parish of New Monkland, of the Quoad Sacra parish of Clarkston, and of the West Church, Airdrie. Agent, Mr. Thomas Clark, County Buildings, Airdrie.

<sup>\*</sup> Vacant through lapse of time.

Bursars—\*Alex. Loudon, 1876; Robert Davidson, 1879; David Cross, 1879; David W. Torrance, 1880; Donald J. Mackintosh, 1880.

John Gibson Bursaries.—Founded in 1877 by Miss Jane Gibson, in memory of her father, John Gibson, of Oakbank and Johnstone, merchant in Glasgow. The Bursaries, which may be given to one student or at most two, consist of the annual proceeds of £1,000. The administration is vested in Trustees who have great discretionary powers as to the conditions on which the Bursaries may be held.

In 1881 a Bursary tenable for three years will be given to a medical

student entering on the second year of his course.

Applications to be made to James Graham, Esq., writer, 198 W. George St., Glasgow, who will furnish forms of application.

Bursars—\*David Gardner, 1878; Alexander Frew, 1880 (3 years).

THE KINTYRE (KER) BURSARY.—Founded in 1862 by Robt. Ker, Esq., of Auchinraith, merchant in Glasgow, and originated in the Founder's desire "to increase the opportunities of acquiring knowledge to the

natives of Kintyre.

The Office-Bearers of the Kintyre Club were appointed Patrons. By the deed of mortification, the free proceeds of a sum of £500 sterling—about £20 sterling—were appointed to be paid to a student to be nominated by them, and who should enjoy the said Bursary for the term of three years while prosecuting his studies at the Glasgow University, with power to the patrons to determine, in every case, whether the Bursary should be granted for a longer or shorter period than three years, but in no instance is it to be granted for a longer period than four years to the same student. No restriction is placed upon the student as to his profession or calling. Applications to be lodged with the Secretaries of the Kintyre Club—Messrs. W. G. and J. W. Lindsay, 30 George Square, Glasgow.

Bursar—Ewen Archibald Rankin, 1880.

Incorporation of Maltmen Bursaries.—Founded by the Incorporation of Maltmen of Glasgow, for the education of two individuals—being members, sons of members, or grandsons of members of the Incorporation. Tenable for four years. Value, £25 per annum each. Appointments to vacancies are made in the month of September by the Master Court of the Incorporation. Mr. Robert Douie, 170 Hope Street, Glasgow, Clerk.

Bursars—George Herriot, 1880; James A. MacLean, 1880.

Monteith Bursaries.—Founded in 1869 by Mr. James Monteith, of 38 Duke Street, St. James's, London. Three in number, each of the annual value of about £16, and tenable for three years. They are open for competition to all matriculated students of the Faculty of Arts, being natives of Scotland, and sons of Scottish parents, and may be held along with another Bursary. The examination to be in French and German in alternate years. Occasionally an extra Bursary will be given to the second-best candidate, of the same value as the others, but tenable only for one year. At the commencement of session 1881-82, a regular three years' Bursary will be competed for, the examination being in French.

<sup>\*</sup> Vacant through lapse of time.

Bursars—\* George Saunders (German Bursar), 1878; William F. Somerville (French Bursar), 1879; Robert L. Stark (German Bursar), 1880.

SMITH BURSARIES.—Two in number, founded in 1849, by Dr. John Smith, of Crutherland; not restricted to any particular description of students. Patrons—The Directors of the Incorporated Company of Stationers. Sons of members of the Company preferred; then sons of persons connected with any of the trades included in their charter, whom failing, such other students as may be approved of by the Patrons. Value, £9 per annum each. Tenable for one or more years, at the option of the Patrons. Applications to be made to Mr. R. Brodie, 87 St. Vincent Street, Glasgow.

Bursars—William Murray, 1879; Robert H. Lyall, 1879.

TAYLOR BURSARIES.—Two in number, founded by Mr. James Taylor, writer in Glasgow, who by trust disposition and settlement, of date 30th June, 1857, bequeathed to the University the sum of £800 for Bursaries. After Mr. Taylor's death, the trustees found that the estate was not sufficient to pay the various legacies in full. They paid over to the University in January, 1868, the sum of £560, and in September, 1878, a further and final dividend of £80, making in all £640, the free proceeds of which are applied to the payment of the two Bursars. The Senate are Patrons. Preference to the names Tayler or Taylor, Ronald, Dunlop, Henderson, and M'Arthur.

Bursars—Francis Taylor (Med.), 1878; John Innes Dunlop (Med.),

1879.

# 2. EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS. INDEX.

Foundation.	No. of Scholar- ships, &c.	TENABLE BY	Approximate Annual Value of each.	Page in Calen- dar.
Black Theological, - Breadalbane,	$\frac{1}{2}$	Masters of Arts of Scot. Univ., Do. Glas. Univ.,	£140 £50	162 154
Clark, George A., Clark, John (Mile-end),	4	Do. do. Arts Students at close of Curric.,	£225 £50	160 157
Donaldson,	1	?	£35	163
Eglinton, Euing, William,	$\begin{array}{c c} 8 \\ 1 \\ 2 \\ 3 \end{array}$	Masters of Arts of Glas. Univ., Do. do.	£100 £80	155
Ferguson,	6	Masters of Arts of Scot. Univ.,	£80 £35	163- 159
Findlater, Luke,	1.0	Divinity Students of Glas. Univ., Masters of Arts of do.	£120	157
Metcalfe, Sandford,	1 1	Do. do. Greek Students, do.	£100 £19	158 155
Scott,	1	Masters of Arts of do.	£80	161
Shaw Philosophical, - Snell (at Oxford),	$\frac{1}{12}$	Do. Scot. Univ., Masters of Arts, &c., Glas. Univ.	£160 £110	165 153
Thomson Experimental	3	Students of Natural Philosophy,	£20	158

N.B.—In cases in which a Scholarship or Fellowship falls vacant otherwise than by A.B.—In cases in which a Scholarship or removant haus vacant otherwise than by lapse of time, the Senate may, except where it is inconsistent with the deed of foundation, hold a competition, and make an appointment for the remainder of the period for which such Fellowship or Scholarship may be held. At the next ordinary competition no student shall be excluded from the competition by reason of his having previously been appointed to fill a vacancy for less than the full period; but in no case shall any student hold such Scholarship or Fellowship for longer than the full period fixed in the regulations applicable to such foundation.

SNELL EXHIBITIONS.—In the year 1677, Mr. John Snell, of Uffeton, in the County of Warwick, a native of Scotland, and formerly student in this University, devised to Trustees a considerable estate near Leamington, in Warwickshire, for educating Scottish students at Oxford.

The Exhibitioners are now elected under a scheme settled in the Court of Chancery in 1872. Under the provisions of this scheme it was then arranged that the number of Exhibitioners should be limited to fourteen, it being lawful to elect three in each year, unless the number on the foundation should thereby be increased to beyond fourteen, in which case not more than two were to be elected, the Exhibitions being tenable for five years; but by an agreement, of date 2nd April, 1878, under provisions of the same scheme, the following regulations have been sanctioned :-

1. The stipend of each Exhibitioner admitted to the foundation after

the 31st day of December, 1878, shall be £132.\*

2. Until the 31st day of December, 1880, the greatest number of

Exhibitioners shall be twelve.

3. During the year from the 31st day of December, 1880, to the 31st day of December, 1881, the greatest number of Exhibitioners shall be eleven.

After the 31st day of December, 1881, the greatest number of Exhibi-

tioners shall be ten.

The number of ordinary Exhibitioners it shall be lawful to elect in each year shall be three, unless the number on the foundation for the time being would thereby be increased beyond the greatest number for the time being permitted by this agreement, in which case not more than

two shall be elected.

Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided as Undergraduate students for two years at least in Glasgow College, or for one year in that College, and two at least in some other College in Scotland." "No candidate shall be admitted to examination who shall be a member of the University of Oxford of more than one year's standing from the day of his matriculation inclusive; and no candidate shall be admitted to examination more than once after he shall have completed his 23rd year: but a candidate otherwise qualified shall not be excluded from examination on the ground that he is a graduate of any Scottish University."

Candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than 1st December, 1881. The next examination will be held in April, 1882.

\* At the present time, however, the state of the Fund renders it necessary to call the attention of intending Candidates to the fact that the amount payable to Exhibitioners

appointed after 5th April, 1881, has been reduced.
† By Resolution of date December 13th, 1866, the Senate determined that "Residence" shall, for the purpose of the Snell Trust, be constituted by regular attendance as a public student for the complete Winter Session on not less than two of the classes in the curriculum for the Degree in Arts.

The subjects of examination are as follows:—

In LATIN, GREEK, LOGIC, AND MORAL PHILOSOPHY.—The subjects of examination for the Degree of M.A. with honours.

IN NATURAL PHILOSOPHY AND MATHEMATICS.—The subjects of examination for the Ordinary Degree of M.A.; and higher subjects which

any candidate may express a wish to be examined in.

Candidates are requested to take notice that they are not required to attend the examination in more than one of the three departments of the examination, viz.: Classics, Mental Philosophy, Mathematics; that a candidate may be appointed for decided excellence in any one department alone; and if such excellence in some one of the departments be not displayed by three of the candidates, the Senate will either appoint a candidate who has shown sufficient proficiency in several departments, or will abstain from making three appointments. All candidates, however, will be required to write an English Essay on a subject prescribed at the time.

Exhibitioners.—Wallace M. Lindsay, M.A., 1877; John Stuart, 1877; John Edgar, M.A., 1878; Alexander N. Cumming, M.A., 1878; John W. Marshall, M.A., 1879; Francis Wm. Clark, M.A., 1879; John Lee, 1880; Hugh Walker, M.A., 1880; George Saunders, 1881.

BREADALBANE SCHOLARSHIPS.—The second Marquis of Breadalbane, an alumnus, and afterwards Rector of the University, gave from the first year of his Rectorship (1840-41), and during his lifetime, the sum of £100 annually, which was for some years distributed in prizes among certain classes, and afterwards appropriated to the establishment of two scholarships, the one in Mathematical and Physical Science, and the other in Mechanical Philosophy, Chemistry, and those branches of Natural History that are connected with the Arts and Manufactures.

The Marquis died in 1862, and his deed of settlement made provision for "the annual payment, in all time coming, to the University of Glasgow, of the sum of £100, to be yearly paid to deserving students in this College, as Scholarships or Bursaries, to be called the 'Breadalbane Scholarships,' in such manner as shall be fixed by the Senatus Academicus

of the said University."

The following regulations have been approved by the Senate.

The number of Scholarships shall be two, of £50 each per annum, for

the encouragement of pure and applied Science.

The scholars shall be chosen, after competitive examination in Mathematics and Natural Philosophy, from among candidates who shall have taken the Degree of Master of Arts, or the Degree of Bachelor of Science in the Department of Engineering Science, at the University of Glasgow, within a period of not more than three years preceding the examination; provided always that students graduating at the supplementary graduation in November of any year, shall, for all purposes, be held to have graduated at the ordinary graduation in the May immediately preceding.

Each scholar shall pursue such course of scientific study during the tenure of his Scholarship as the Senate shall in each case prescribe, and shall hold his Scholarship for three years, provided that at the end of the 1st and 2nd years he give the Senate such evidence, by examination or otherwise, as the Senate shall deem sufficient, of having successfully

prosecuted the prescribed course of study.

Subjects of Examination.—Thomson's Differential and Integral Calculus; Salmon's Conic Sections; Herschell's Astronomy; Statics and Kinetics, including attractions; Theory of Rotation, and Elements of Hydrostatics; Rankine's Manual of Applied Mechanics, Part II., Ch. III.; Strength of Materials.

Scholars-John M. Dodds, M.A., 1879; Robt. F. Muirhead, B.Sc., 1880.

Sandford Scholarship.—Founded in 1862 (by the investment of a sum of £520, raised by subscription), in memory of Sir Daniel K. Sandford, the eminent Professor of Greek in this University, who died in 1838. It is tenable for two years, and is awarded to the student who, on examination, gives proof of the greatest proficiency in the Greek language. Value, about £19 per annum.

The examination of candidates for this Scholarship takes place every alternate year in the month of April, and is open to all matriculated students (not Masters of Arts) who have attended the Public Greek

Classes for not less than two sessions.

The subjects of examination are selected from the following authors: Homer, 12 books; Herodotus, 4 books; Sophoeles, 3 plays; Thucydides, 4 books; Æschylus, 3 plays; Demosthenes, one or more orations; Aristophanes, 3 plays; Xenophon's Memorabilia; Pindar; Pladar, one or

more dialogues.

Candidates are examined on not more than four of the above-mentioned authors (of which Homer is always one),—two in prose and two in verse; and the subjects for each examination are given out by the examiners at the end of the session previous to that in which the examination takes place. Candidates are also examined on Translations from Greek into English, with Criticisms, and Translations, in prose and verse, from English into Greek.

Scholar-Daniel Rankin, 1881.

EGLINTON FELLOWSHIPS.—On the death of the Earl of Eglinton, formerly Rector of the University of Glasgow, a committee was formed to collect subscriptions for the purpose of commemorating, in a suitable manner, his virtues and public services; and, subscriptions having been received to the amount of £7,000, it was resolved by the subscribers, in 1862, to set apart £4,500 out of this sum, as a Scholarship or Fellowship

Fund in the University of Glasgow.

By the Trust Deed of date November Sth, 1865, the nett yearly produce of the said sum (after deducting expenses) is to be appropriated to the support of one or more Fellowships, not exceeding three, to be competed for by the alumni of the College of Glasgow, and to be held for a period not exceeding four years, upon the following conditions, viz.: First,—The number of Fellowships, and the period during which the same are to be held, shall, from time to time, be fixed by the Senatus Academicus of the said University. Secondly,—The competition for the Fellowships shall be open only to deserving students who shall have taken the Degree of Master of Arts in that University at the term preceding the competition,\* and the Fellowships shall be awarded by the Senatus Academicus of the University to those students who have shown themselves, in a public competition, to have acquired the greatest

 $<sup>^*</sup>i.e.$ , Either at the ordinary Graduation in May or at the supplementary Graduation in November.

amount of knowledge and proficiency in the branches of study embraced in the curriculum of Arts, and such branches of Natural Science as the Senate shall, from time to time, require. And, Thirdly,—The Examination for the Fellowships shall be under the direction of the Senatus Academicus of the University, who shall fix the subjects of examination, and the relative value of each subject in the competition, and appoint any of their own number, or other fit persons, to be Examinators, and make such regulations with relation to the said Fellowships, and the competition and examination therefor, as from time to time they may think fit.

The following are the regulations of the Eglinton Fellowships.

1. The number of the Eglinton Fellowships shall be two (of about £100 per annum each), tenable for three years, subject to the approval

of the Senate at the end of the first and second year.

2. The competition for the Fellowships shall be open only to deserving students who shall have taken the degree of Master of Arts in the University of Glasgow, at the term preceding the competition. In the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

3. One of the Fellowships shall be open to competition in November, 1866, and thereafter triennially; and the other in November, 1867, and

thereafter triennially.

4. The successful candidate shall undertake, during his tenure of the Fellowship, to follow such a course of study in the University, or to give such assistance in the teaching work of the University, as the Senate may determine.

5. The subjects of examination for the Eglinton Fellowship to be competed for in November, 1881, and thereafter triennially, shall be Logic and Metaphysics, Moral Philosophy, English Literature, and Classics,

including Ancient History.

The subjects of examination in Latin, Greek, Logic, and Moral Philosophy, shall be the same as those for the Degree of Master of Arts

with Honours.

Candidates are requested to take notice that conspicuous excellence in one of the departments of the examination—in Classics, or in Philosophy and English Literature—will be preferred to moderate attainments in both.

6. The subjects of examination for the Eglinton Fellowship to be competed for in November, 1882, and thereafter triennially, shall be the subjects of examination for the Degree of Master of Arts with Honours in Mathematics and Natural Philosophy.

7. The Eglinton Fellowship shall not be held along with the Snell Scholarship, or Breadalbane Scholarship, and the holder of the Luke Fellowship or of the Metcalfe Fellowship shall not be admitted to com-

pete for the Eglinton Fellowship.

Names of Candidates for the Eglinton Fellowship to be competed for in November, 1881, to be given in to the Assistant-Clerk of Senate not later than 1st October. Fellows—\* Robert Mackintosh, 1878; William L. Macindoe, M.A., 1879.

LUKE FELLOWSHIP.—In 1863, the late William Luke, Esq., of Edinburgh, bequeathed to the University of Glasgow the sum of £3,000 sterling, "to perpetuate the memory of his nephew, George Rankin Luke" (formerly a highly distinguished student of this University, and afterwards student of Christ Church, Oxford), "in such a manner as his esteemed friend, Professor Nichol, may consider most beneficial."

The following are the Regulations of the Luke Fellowship:-

1. There shall be a single Luke Fellowship (of about £12 $\hat{0}$  per annum), tenable for three years, subject to the approval of the Senate at the end of the first and second year.

2. The Luke Fellowship shall be awarded on examination in Classics and Ancient History, Moral Philosophy, Logic and Metaphysics, and

English Literature.

3. The successful competitor shall be bound to give such assistance in the teaching of the class of English Literature as the Senate may in each case prescribe; and, in reporting to the Senate, the Examiners shall pay particular attention to this obligation, and shall give English Literature at least equal weight with either Classics or Philosophy.

4. The Luke Fellowship shall be open to competition in November,

1868, and thereafter triennially.

5. Competitors for the Luke Fellowship must be Masters of Arts of this University, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall, for all purposes, be held to have graduated at the ordinary graduation in the May immediately preceding.

6. The Luke Fellowship shall not be held along with the Snell Scholarship, the Clark Scholarship, the Eglinton Fellowship, or the Euing

Fellowship.

7. Students who have competed at one Luke Fellowship Examination shall not be admitted to another, nor shall the holder of the Eglinton Fellowship; but in the event of a candidate's being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the Luke Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

The Luke Fellowship will be open to competition in November, 1883.

Fellow-John G. A. Dow, M.A., 1880.

John Clark (Mile-end) Scholarships.—By the Deed of Constitution regulating the John Clark Bursaries (see page 127), the Founder, Mr. John Clark, also instituted Scholarships of £50 annual value, open for competition to Protestant students, sons of Protestant parents, on the completion of their curriculum in Arts in Glasgow University. The scholarships are to be awarded to the candidates who stand highest at written examinations in the branches of learning appointed by the Trustees, and are tenable for four years, subject to the condition that the

<sup>\*</sup> Vacant in November, 1881, through lapse of time.

scholars give their undivided time and attention to the prosecution of their studies with a view to any of the learned professions, or, on approval of the Trustees, any other profession or business they may prefer. Two scholarships will be competed for in November, 1881, one in the department of Mathematics and Natural Philosophy and one in the department of Natural Science. The examination will be on the subjects prescribed for the Degree of M.A. with Honours (or such of them as the candidates may profess), in the respective departments.

Names of candidates to be given in to the Assistant-Clerk of Senate on or before the 1st October, and also to Mr. J. B. Kidston, 50 West Regent

Street, Glasgow.

Scholars—\* John M. Dodds, M.A., 1877; \* Alexander S. Wilson, M.A., B.Sc., 1877; John G. A. Dow, M.A., 1878; John H. Fullarton, 1879; James H. Bryce, M.A., 1879; David W. Forrest, M.A., 1879; Thomas Gregory, M.A., 1880; James Hamilton, M.A., 1880.

Thomson Experimental Scholarships.—Three Scholarships, in value about £20 each, for the promotion of Experimental Research, founded by Sir William Thomson, LL.D., D.C.L., Professor of Natural Philosophy in the University, by letter to the Principal, of date September 6th, 1869, in which, after referring to "the liberal and friendly spirit which had been shown him by his colleagues in respect to his connection with telegraphic enterprise," and the "facilities for experimenting which the College had afforded him," he states that "he wished to mark his sense of these benefits by setting aside something of what he had received to assist in promoting the cultivation of experimental investigation in Glasgow University," and for this purpose offered for the acceptance of the Senate the sum of £1,000.

The scholars are appointed by the Senate on the recommendation of the Professor of Natural Philosophy and the Committee on Physical Apparatus, from among students who have previously shown their zeal and ability in Experimental Investigations in the Physical Laboratory, and they are required to engage in the continued prosecution of Experimental Investigations in the Laboratory for not less than nine months of the year, to the satisfaction of the Professor of Natural Philosophy. These Scholarships may be held along with any other Bursary, Scholar-

ship, or Fellowship.

Ścholars for 1881—Roderick Macrae, John Rennie, Rinzaburo Shida.

Metcalfe Fellowship.—Founded by the late Miss Sarah Metcalfe, Glasgow (see under Metcalfe Bursaries, page 135).

The following are the regulations of the Metcalfe Fellowship:-

1. There shall be a Fellowship on the Metcalfe foundation, of the annual value of £100, tenable for three years, to be competed for in

November, 1872, and thereafter triennially.

2. Candidates must be Masters of Arts with Honours in the department of Mathematics and Natural Philosophy, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year, shall, for all purposes, be held to have graduated at the ordinary graduation in the May immediately preceding.

\*Vacant through lapse of time.

3. The examination shall be the examination for the Degree of Master of Arts with Honours in the department of Mathematics and Natural

4. The Fellowship shall be held subject to the condition of pursuing a course of study in such of the following subjects-viz., Higher Mathematics, Practical Astronomy, Civil Engineering and Chemistry—as the

Senate shall in each case prescribe.

5. The Metcalfe Fellowship shall not be held along with the Eglinton Fellowship, the Snell Scholarship, or the Breadalbane Scholarship; and the holder of the Eglinton Fellowship shall not be allowed to compete for the Metcalfe Fellowship; but in the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

The next examination will be held in November, 1881. competitors to be given in to the Assistant-Clerk of Senate not later than

1st October.

Present Fellow-\*James Wilson, M.A., 1878.

FINDLATER (DIVINITY) SCHOLARSHIP.—This scholarship, consisting of the free annual proceeds of the sum of £1,000, gifted to the Senate by Mr. Alexander Findlater, Dublin, was founded in 1871. The regulations were adopted by the Senate, Nov. 30th, 1871:—

1. The Findlater Scholarship shall be awarded annually by competi-

tion.

2. At the first competition (April, 1873), and thereafter biennially, the examination shall be in Divinity and Church History; at the second competition (Nov., 1873), and thereafter biennially, the examination

shall be in Hebrew and Biblical Criticism.

3. The subjects of examination in each of the four departments shall be the same as those prescribed for the degree of B.D.; but any of the candidates at any examination shall be at liberty to profess additional subjects in one or both of the departments in which he is examined.

4. The examinations shall be held at the same time as the examination for the Degree of B.D.; those in Hebrew and Biblical Criticism in the commencement of the session, and those in Divinity and Church History

at the close of the session.

5. The competition shall be open to all students of Divinity who shall complete the ordinary course at the close of the session in which the examination is held, or who shall have completed their course at the close of the session immediately preceding.

The next competition will take place in Nov., 1881, the examination being in Hebrew and Biblical Criticism. Names of candidates to be given in to the Assistant-Clerk of Senate, on or before October 1st.

Scholar in Divinity and Church History, April, 1881—William Kean,

B.D.

<sup>\*</sup> Vacant in November, 1881, through lapse of time.

George A. Clark Bursaries or Scholarships.—By the Will of the late Mr. George A. Clark, manufacturer, Paisley, a sum of £20,000 was bequeathed in 1872 to this University for the creation of four Bursaries, tenable each for four years. The following are the Regulations:—

1. One of these Bursaries shall be competed for annually at or imme-

diately after the November examination for Degrees in Arts.

2. The candidates for the Bursaries shall be either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours, in any one of the four departments enumerated in the ordinances of the Universities Commissioners, No. 14, § VII., and No. 18, § III., viz.:—

(1) Classical Literature.

(2) Mental Philosophy, including Logic, Metaphysics, and Moral Philosophy.

(3) Mathematics, including Pure Mathematics and Natural Philo-

sophy.

(4) Natural Science, including Botany, Geology, Zoology, and Chemistry.

But no student shall be eligible for the examination after the expiration of more than three winter sessions from the time of his completing the course necessary for the M.A. Degree.

3. The successful candidate shall undertake, during his tenure of the Bursary, to give such assistance in the teaching work of the University, and to follow such a course of study in the University, as the Senate

may determine.

4. The subjects of examination each year shall be those which constitute the examination for Honours in one of the above-named departments (the department selected each year for examination to be publicly announced.) The Senate reserve the right to withhold the Scholarship, should none of the competitors reach the standard of attainment required

of graduates in Arts with highest Honours.

5. In the event of the examiners reporting in any year that no candidate has done sufficiently well in the subjects of that year to deserve the Scholarship, no appointment shall be made in that year; but it shall be in the power of the Senate to hold an examination for the same Scholarship and in the same subjects, in the following year, provided that in that case the Scholarship shall be held for three years only and not for four, the surplus revenue being added to the capital of the fund. Should the same thing occur again, it shall be in the power of the Senate to appoint a Scholar for two years only, or for one year only, the examination in each case being in the same subjects as when the Scholarship was first competed for. In the same manner, in the event of a vacancy occurring in the tenure of any of the Scholarships otherwise than by lapse of time, the Senate may make an appointment for the remainder of the term for which the Scholarship might have been held by the student vacating it, and after examination in the same subjects as those for proficiency in which the Scholar was originally appointed; but in no case shall the regular rotation of subjects as above provided for be disturbed. In the competition for Scholarships to be held for less than four years, no student shall be admitted to examination who would not

be eligible, as above arranged, for a Scholarship to be held for four years. In the event of a candidate being appointed to a vacancy to be filled for less than four years, and being still eligible, under the usual regulations as above, to compete for the said Scholarship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Scholarship, but in no case shall any student be permitted to hold the Scholarship for more than four years in all.

6. It shall not be competent for the holders of these Bursaries to hold

any other Bursary or Scholarship in this University.

7. It shall be in the power of the Senate to deprive any Bursar of his Bursary, in the event of his not complying, to their satisfaction, with any of the above regulations.

8. The Examiners shall be the same as the Examiners for the Degree

of M.A. with Honours in each of the several departments.

One of these Bursaries or Scholarships, of the annual value of about £225, and tenable for four years, will be competed for, subject to the foregoing regulations, in November of the present year; the examination to be in the first of the four departments above enumerated—viz., Classical Literature. And at the same time there will be a competition for one of the Bursaries or Scholarships in the department of (4) Natural Science, tenable for three years. Candidates are requested to give in their names to the Assistant-Clerk of Senate not later than 1st October.

Bursars—Henry Jones, M.A., 1878 (Mental Philosophy); Robert H.

Pinkerton, M.A., 1879 (Mathematics).

SCOTT SCHOLARSHIP.—(See under head "Scott Bursaries," p. 139.)

This Scholarship, in value £80 per annum, is open for competition to Masters of Arts in the University of Glasgow of not more than three years' standing, having graduated with Honours in Classics or in Mental Philosophy, or to students who, at the time of competition, are presenting themselves for the final examination in the said University for the M.A. Degree with Honours in Classics or in Mental Philosophy. examination to be in Classics, Mental Philosophy, and English Literature, which may include History. The Scholarship is tenable for two years, and the holder is required to follow such a course of study in the University of Glasgow, or give such assistance in the teaching work of the University as the Senatus Academicus may determine. The Scott Scholarship is not to be held along with any other Scholarship, Fellowship, or Bursary of the University of Glasgow. "The subjects of Examination for the said Scholarship shall be, with the addition aftermentioned, Classics or Mental Philosophy, or both of these, the special subjects being those for the examination for the M.A. Degree with Honours in the given department or departments for the year, and in addition to the examination above mentioned the competitors for the said Scholarship shall undergo an examination in English Literature of a higher kind than that required for an ordinary pass in Mental Philosophy." The Examination in 1882 will be in Classics and English Literature.

Scholar—David S. Adam, 1880.

WILLIAM EUING FELLOWSHIPS.—Founded in 1874 by Mr. William Euing, insurance broker, Glasgow, who by his Will bequeathed to the University, along with a library of rare and valuable Books, the sum of

£6,000 for the endowment of three Fellowships, each of the value of £80 per annum, and tenable for not more than five years. The Fellowships to be open only to deserving students who have completed the regular curriculum in Arts, and taken the Degree of M.A. at this University, and to be awarded after competition in the subjects of the Arts curriculum. The Fellows are required to reside in Glasgow for at least nine months of the year, and "to open private classes, of limited numbers, for giving instruction to, and aiding students of the University—more especially during the vacation, or such part thereof as may be found expedient—in such studies as may be auxiliary to, or illustrative of, the course of lectures which such students may have attended, or be desirous of attending, and also to carry out the same purposes by a systematic course of private tuition."

One Fellowship is attached to the department of Classics, one to the department of Mathematics and Natural Philosophy, and one to the department of Mental Philosophy, including Logic, Moral Philosophy,

and English Literature.

The Senate have issued the following regulations for the competition

for these Fellowships:-

1. In the department of Classics there shall be one Fellowship competed for in November, 1875, and thereafter at intervals of four years, the period for which the Classical Fellowship shall be ordinarily tenable.

2. In the department of Mental Philosophy one Fellowship shall be competed for in November, 1876, and thereafter at intervals of three years, the period for which the Fellowship in the department of Mental

Philosophy shall be ordinarily tenable.

3. In the department of Mathematics and Natural Philosophy one Fellowship shall be competed for in November, 1875, and a Fellow appointed for two years; the Mathematical Fellowship becoming vacant in November, 1877, shall be filled up for a period of three years, the period for which the Fellowship in this department shall be ordinarily held.

In the event of a candidate being appointed to a vacancy to be tilled for less than four years in the department of Classics, or for less than three years in the department of Mental Philosophy, or of Mathematics and Natural Philosophy, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than four years in all, or three years in all, respectively.

Fellows—Jas. K. Duff, M.A., 1879 (Classics); Jas. Denney, M.A., 1879 (Mental Philosophy); Roderick C. Macrae, M.A., 1880 (Mathematics).

BLACK THEOLOGICAL FELLOWSHIP.—This Fellowship, of the annual value of £140 or thereby, was instituted under the will of the late Mrs. Janet Black (who died in 1876) in memory of her husband, the Rev. William Black, D.D., minister of the Barony Parish of Glasgow. Candidates must be members of the Established Church of Scotland.

The following regulations have been adopted by the Senate with the

sanction of the University Court :-

1. The Black Theological Fellowship shall be tenable for two years.

2. It shall be awarded by competition open to Masters of Arts from any of the Universities of Scotland, who shall complete the ordinary curriculum of Theological study in the University of Glasgow in the year in which the examination is held, or who shall have completed that curriculum in any of the three preceding years.

3. At the first competition in November, 1877, and thereafter in November at intervals of four years, the examination shall be in Hebrew and Biblical Criticism; and at the second competition in April, 1879, and thereafter in April at intervals of four years, the examination shall

be in Divinity and Church History.

4. The Fellowship shall be awarded by the Theological Faculty only when the examining Professors shall report that the candidate is of

sufficient merit.

5. The holder of the Fellowship shall, during his tenure of it, perform such duties—whether in the form of giving a short course of lectures, or of undertaking tutorial work, or otherwise—within the University, as may be assigned to him by the Faculty of Theology with the sanction of the Senate.

6. No candidate who has gained the Fellowship at one examination

shall be at liberty to compete for it a second time.

7. The Fellowship shall not be held in conjunction with any other Theological Fellowship or Scholarship falling to be awarded at the same

time, or subsequently during its tenure.

The third competition shall take place in November, 1881, the examination being in Hebrew and Biblical Criticism. The subjects of examination are as follows:—In Hebrew—Psalms i.-xli. inclusive; the Books of Zechariah, Haggai, and Malachi; translation, grammar, with questious on authorship and introduction; portions of unpointed Hebrew (selected from the books prescribed) to be pointed; English sentences to be done into punctuated Hebrew. In Biblical Criticism—The Principles of Interpretation; Exegesis of Luke iii. 21—xviii. 14, with critical comparison of the parallel passages in Matthew and Mark; Exegesis of the Pastoral Epistles; Introduction to (1) the Gospel according to Luke, (2) the Pastoral Epistles.

Names of candidates to be given in to the Assistant Clerk of Senate,

on or before 1st October.

Present Fellow—Rev. Colin Campbell, B.D., April, 1879.

Donaldson Scholarship or Bursary.—Founded in 1881, by will of the late Mr. Alexander Donaldson, iron merchant in Glasgow, who bequeathed to the Senatus of Glasgow University £1,000, to be administered by them as patrons for the endowment of a Scholarship or Bursary, at their discretion, in connection with the said University.

The regulations for this Scholarship will be published in next year's

Calendar.

Ferguson Scholarships.—With a view to the encouragement of the higher learning in Scotland, the Trustees of the late Mr. Ferguson, of Cairnbrock, out of his Legacy of £50,000 for educational and other purposes, instituted in 1860 six Scholarships, each of the value of £80 per annum, to be held for two years, and to be called "The Ferguson Scholarships."

The examination of candidates for three of these Scholarships will be held in Glasgow, on Tuesday, 4th October next, and following day. One of the Scholarships will be awarded for the greatest proficiency in Classics; one for the greatest proficiency in Mathematics, including Natural Philosophy; and one for the greatest proficiency in Mental Philosophy, including Logic, Metaphysics, and Ethics.

Subjects for examination-

1. Classical Scholarship.—Latin.—Lucretius, De Rerum Natura. Books V., VI. Virgil, Georgics. Horace. Cicero, In Verrem, Actio Secunda, Books IV., V. Tacitus, Histories, Books I.-III., Agricola. Plinius. Epistolæ, Books VI. and X. Latin Prose Composition.

Greek.—Homer, Iliad, Books XIII.-XXII., and Hymn to Demeter. Pindar, Olympian Odes. Æschylus, Agamemnon, Choëphoræ, Eumenides. Thucydides, Books VII., VIII. Aristophanes, Knights and Clouds. Plato, Republic, Books VIII., IX. Greek Prose Composition.

Questions (a) On Greek and Latin Syntax and Etymology; (b) On

Greek and Roman History and Literature.

2. MATHEMATICAL SCHOLARSHIP.—Mathematics.—Euclid's Elements, Modern Geometry. Algebra, including Determinants and Theory of Equations. Trigonometry, Plane and Spherical. Analytical Geometry, in Two and Three Dimensions. Differential and Integral Calculus, and Differential Equations.

Natural Philosophy.—Abstract Dynamics (commonly called Mechanics), including Kinematics and Statics and Kinetics of Solids and Fluids. Experimental Physics, including all the ordinary subjects treated in

Lectures on Natural Philosophy.

3. Philosophical Scholarship.—Logic.—Province and History of Logic. Logical Forms of Notions, of Judgments, and of Inferences. Fallacies and their Causes. Evidence. Authority. Science and its Methods. Recent Discussions affecting Logic.

Metaphysics.—Psychology (Physiological and Metaphysical) and Ontology. Nature, Origin, and Limits of Man's Knowledge of Self, the Material World, and God. History and Critical Analysis of Ancient

and Modern Metaphysical Systems.

Moral Philosophy.—Psychology and Metaphysics of Ethics. The Moral Faculty, Motive Powers, and Will. Moral Government of the Universe, and cognate Questions. Applied Ethics, including the relations of Ethics to Law and Politics. History and Critical Analysis of

Ancient and Modern Ethical Theories.

The competition will be open to all persons who have passed the last of the examinations required for the degree of Master of Arts in one of the Universities of Scotland (whether taking the degree at the same time or not) within two years immediately preceding, and who have not already gained one of these Scholarships or competed more than once previously for any of them. The examinations will be conducted in writing.

Candidates are requested to give in their names, personally or by letter, at the Office of the Ferguson Bequest Fund, 94 Bath Street, Glasgow, not later than 1st September, 1881, and due intimation will be

sent to those enrolled, as to the place and hours of examination.

Present Holders.—Classics, James Mackintosh, M.A., 1879; Mathematics, William Welsh, M.A., 1879; Mental Philosophy, Andrew Seth,

M.A., 1879; Classics, James Adam, M.A., 1880; Mathematics, George William Küchler, M.A., 1880; Mental Philosophy, William Merry Macphail, M.A., 1880.

Shaw Philosophical Fellowship.—This fellowship was founded by subscription in 1867, in the University of Edinburgh, in memory of Sir J. Shaw, Bart., who was born at Mosshead, in the Parish of Riccarton and county of Ayr, in 1764, was elected Lord Mayor of London in 1805, and M.P. for the same city in 1806, and after a long and distinguished career, died in London in 1843; and is open to the competition of graduates in Arts of any of the Scottish Universities. The Fellowship consists of the free proceeds of the sum of £4,100 mortified to the Senatus Academicus of the University of Edinburgh under the following conditions, namely:—

- 1. The said Fellowship shall bear the name of "The Shaw Philoso-Phical Fellowship," in memory of the said Sir James Shaw, Baronet.
- 2. The Patronage of the said Shaw Philosophical Fellowship shall belong to the said Senatus Academicus, and shall be exercised by them, subject to the conditions herein contained, for the encouragement of the study of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.
- 3. The Fellowship shall be awarded by competitive examination in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.
- 4. The Fellowship shall, on each occasion of an appointment thereto, be open to the competition of Graduates in Arts of the Scottish Universities, that is to say, the University of Edinburgh, the University of Glasgow, the University of Aberdeen, and the University of St. Andrews, of not more than five years' standing at the time of the competition, and of all students of the said Scottish Universities, who, although they have not graduated in Arts, shall yet have successfully passed the last of the examinations necessary for such graduation in Arts, within the period of five years before the time of the competition; and the said Senatus of the University of Edinburgh, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the University of Edinburgh, shall have power either to increase or to reduce the number of years of standing as graduates, or as students who have passed all the examinations necessary for graduation, as above fixed, for competitors for the Fellowship.
- 5. The Fellowship shall be tenable for five years only, but the said Senatus Academicus of the University of Edinburgh shall have power, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the said University of Edinburgh, to extend, with reference to all holders of the Fellowship, the term of tenure to any period of years not exceeding ten, if, in the course of time, it shall appear to them desirable to do so, from an increase in the number of foundations of a similar kind in the University of Edinburgh, or in the other Scottish Universities, or other sufficient reason.

6. The competitive examination for the said Fellowship shall, except

in the case below provided for, be conducted by two Examiners, to be appointed in the manner fellowing—to wit, one of the Examiners shall be appointed by the Senatus Academicus of the University of Edinburgh, either from among the Members of the said Senatus or others, as they may think proper, and the other Examiner shall be appointed by the Senatus Academicus of one of the other Scottish Universities in rotation.

7. The said Examiners, so appointed, shall report their opinion of the result of the examination to the Senatus Academicus of the University of Edinburgh, who shall, as Patrons of the said Fellowship, appoint thereto the candidate who appears by the report to be best qualified by proficiency in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy, provided that, as required by the clause next following, such best qualified candidate shall, in the opinion of both the Examiners, have manifested a sufficiently high degree of proficiency to merit the Fellowship.

9. Each holder of the said Fellowship shall, during his tenure thereof, be entitled to receive the annual proceeds of Four Thousand one Hundred Pounds, and of any additions of the said sum which may hereafter be made thereto, as after mentioned, after deducting all reasonable expenses, including the payment of remuneration to the Examiners appointed as aforesaid.

12. It shall not be competent for any person to hold the said Fellowship along with any other Fellowship, Scholarship, or Bursary in any Scottish University, or appropriated to the students of any Scottish University or Universities.

17. It shall be in the power of the Senatus Academicus of the University of Edinburgh to require the holder of the Shaw Philosophical Fellowship, during the fourth or fifth year of his tenure of it, to deliver in the University of Edinburgh a Course of Lectures, not exceeding four, on any of the subjects for the encouragement of the study of which the Fellowship has been founded; and notice shall be given to the holder of the Fellowship twelve months previously to the time fixed for the delivery of the said Lectures that he is required to deliver them; but the said Senatus, with consent of the University Court of the University of Edinburgh, shall have power to alter the number of Lectures, if it shall be found desirable to do so.

The next Examination for this Fellowship will be held in the College of Edinburgh in December, 1883.

# 3.—PRIZES.

Besides the Class Prizes, and a number of Prizes given by the different Professors for particular kinds of merit, there are others which the generosity of public-spirited individuals has founded for the encouragement of learning in the University.

The names of the Prizemen for Session 1880-81 will be found in the

Degree and Prize List.

INDEX.

Foundation.	NATURE OF PRIZE.	Awarded for	Page in Calen- dar,
Arnott,	£25 and £15,	Examinations,	167
Brunton Memorial, -	£10,	Do.,	168
Buchanan (3),	Books,	Do.,	168
Cleland,	Gold Medal,	Essay,	168
Coulter,	£5 and £2, 10s.,	Essays,	168
Cowan (3),	Gold Medals,	Examinations,	169
Dobbie-Smith,	Gold Medal,	Essay,	169
Dowanhill,	£21 and £10, 10s.,	Elocution,	169
Ewing,	Gold Medal (biennial)		170
Gartmore,	Do. ( ,, )	Essay,	170
Gladstone Historical,	£21 (biennial),	Examination,	170
Harvey, George,	£20,	Do.,	170
Henderson,	£21,	Essay,	170
Jeffrey,	Gold Medal,	Examination,	171
Luke Historical, -	£12 (biennial),	Do.,	171
Macfarlan and Cook,	£21,`	Do.,	171
Muirhead,	Books,	Do.,	171
Rae Wilson,	Gold Medal,	Essay,	172
Savigny,	6,900 Marks,	Essay,	172
Scott-Macfarlan,	Gold Medal,	Examination,	172
University,	Silver Medal,	Essay,	172
Walker (4),	Books, &c.,	Examinations,	172
Watt,	£10,	Essay,	173

ARNOTT PRIZES.—Founded in 1869, by Dr. Neil Arnott, of London, who presented to the Senate the sum of £1,000 to found a Prize, or Prizes, for the encouragement of the study of Natural Philosophy among the medical students of the University.

By resolution of the Senate, of date April 10, 1873, the following

regulations were adopted :-

1. That there shall be two separate examinations; one in General Physics, for students of the first and second years of their Medical studies: the other for students of the third and fourth years, in Physiological Physics, or the application of the doctrines of General Physics to

Physiological Science.

2. The knowledge required for the second of these examinations being much more extensive, and of a much higher order than that required for the first, and being the kind of knowledge of which it is most important to encourage the cultivation, as not only useful in the practice of the Medical Art, but eminently fitted to advance the Physiological Sciences; that a sum of not less than Twenty-five pounds be offered annually, in one or several sums, as circumstances may require, to the student or students who excel in the second examination.

3. That the remaining portion of the revenue derived annually from Dr. Arnott's donation be offered in the same way to the student or

students who excel in the first examination.

4. That the first examination be under the superintendence of the Faculty of Arts, with the Professors of Physiology and of Anatomy as Assessors.

5. That the second examination shall be under the superintendence of the Medical Faculty, with the Professors of Natural Philosophy and of Mathematics as Assessors.

6. That all candidates shall, at the commencement of each session, intimate their intention to the Assistant-Clerk of Senate; and that, to prevent unqualified persons from coming forward, each candidate shall produce satisfactory evidence of his having attended a Course of Lectures on Natural Philosophy, or of having been a pupil in a Laboratory where Practical Physics or Practical Physiology is taught; or, failing of these qualifications, he shall deposit the sum of ten shillings, which shall be forfeited if his examination marks fall below the average standard.

7. That every candidate who passes creditably the first examination shall be thereby entitled to come forward for the second, without being

obliged to deposit the sum of ten shillings.

8. That no prize shall be awarded without sufficient merit being shown, and that in the event of one or more of the prizes on any occasion not being awarded, the amount shall be added to the principal sum.

The examination will be in writing, and will be held on Saturday, the 5th November, 1881, in the Examination Hall, at Three P.M. Intending candidates to give in their names to the Assistant-Clerk of Senate on or before the 10th October.

Brunton Memorial Prize.—Founded in 1879, in memory of the late Duncan M. Brunton, M.A., M.B., Paisley, a distinguished graduate of this University, who died in 1877 of fever contracted in the diligent discharge of his professional duties in the Royal Infirmary of Paisley. The Committee of Subscribers paid over to the Senate the sum of £300, the interest of which is to be given annually to the most distinguished graduate in Medicine of the year.

BUCHANAN PRIZES.—The annual proceeds of the Buchanan Bursary Fund (see p. 127) are now, with the sanction of the subscribers, applied to the purchase of Books, which are annually awarded to the most distinguished students in the classes of Logic, Moral Philosophy, and English Literature.

CLELAND GOLD MEDAL.—Dr. James Cleland, Superintendent of Public Works in Glasgow, who died 14th October, 1840, founded a Gold Medal of the value of Ten Guineas, to be bestowed in alternate years on student of Divinity and a student of Natural Philosophy, as a Prize for the best Essay on any subject to be prescribed by the Principal and Professors of the University.

Coulter Prizes.—In 1787, Mr. James Coulter, merchant in Glasgow, bequeathed £200 to the University, "the annual proceeds to be applied in premiums, one or more, either pecuniary or honorary, for the encouragement of Composition and Elocution, upon subjects of the Faculty's choosing." The interest of this sum is now divided into Two Prizes, the one of £5, and the other of £2 10s.; the former to be given in alternate years for a Sermon or Theological Essay, and for an Essay in Mental Philosophy and English Literature, the latter to be given annually for a

Translation from some Classical Author, or other composition connected with Classical Literature. The competition for these prizes is open to all students of the University.

Cowan Gold Medals.—In 1836, Dr. Cowan, of Sunderland, presented to the University the sum of £400, the interest to be applied annually in the purchase of Two Gold Medals of the value of £10 10s. each, to be awarded to the two students who may distinguish themselves most in the Greek and Latin Examination upon the Blackstone; and shortly afterwards (1839), the same gentleman presented the University with an additional sum of £105, the interest to be expended annually in the purchase of a Gold Medal of the value of £5, to be awarded to the best student in the Humanity Class.

The examination for Dr. Cowan's Medals will be held early in November, 1881. Competitors to be eligible must be public students in some

curriculum class in the Faculty of Arts.

For the Greek Medal, competitors must either have received in session 1880-81 a public ticket of the Greek Class, or must, in November, 1881, have passed as entrants the preliminary examination in Greek.

For the Latin Medal, competitors must either have received in session 1880-81 a public ticket of the Latin Class, or must, in November, 1881,

have passed as entrants the preliminary examination in Latin.

Notice is hereby given that at the examination for Dr. Cowan's Medals in November, 1881, and thereafter, no one will be admitted to compete for the Greek Cowan Medal who has attended for more than three sessions, or who, after passing the preliminary examination in Greek has attended for more than two sessions in any Scottish University, and no one shall be admitted to compete for the Latin Cowan Medal who has attended for more than two sessions, or who, after passing the preliminary examination in Latin, has attended for more than one session in any Scottish University.

Dobbie Smith Gold Medal.—In 1881 Mr. Thomas Smith, L.R.C.S.E., Heriot Hill House, Edinburgh, presented to the University in memory of his wife, lately deceased, the sum of £150 for the purpose of founding a University Gold Medal of about £10 in value to be given biennially for the encouragement of the study of Botany. The competition is open to all Matriculated Students of the Session in which the Medal is to be awarded; the subject of competition,—which shall always be a botanical subject,—to be selected by the Professors of Botany and Natural History, and announced at least eighteen months before the date fixed for receiving essays.

The subject for the first competition to be an Essay "On the Geographical Distribution of Algae" accompanied by a collection of Algae from the Firth of Clyde or from the Firth of Forth. Essays to be given

in to the Principal on or before 14th November, 1882.

DOWANHILL PRIZES.—Two prizes, one of £21, and the other of £10 10s., for "Excellence in the Art of Oratory and Declamation, and in the practice of a refined and pleasing Delivery, and in reading the Scriptures," founded in 1865, by Mr. John Buchanan, Merchant in Glasgow, as sole Trustee, nominated and appointed by his deceased

brother, Mr. Thomas Buchanan, also Merchant in Glasgow, and in order to carry out the intentions of his said brother. These prizes are awarded annually to students of Divinity, at the termination of the third or fourth session of their attendance on the Hall, by the votes of their fellow-students. Competitors must have attended for two sessions an Elocution Class, taught by a master approved by the Senate.\*

The above foundation is in memory of the late Mr. James Buchanan, of Dowanhill, of Ellison MacCallum, his wife, and of Mr. George Buchanan, of Stanley, Perthshire, the Father, Mother, and elder

Brother of the Founder.

EWING GOLD MEDAL.—In 1828, James Ewing, LL.D., of Levenside, presented the University with £100 for a Gold Medal to be given every second year for the best Essay on an historical subject. The Gartmore and Ewing Medals are to be given alternately.

Gartmore Gold Medal.—In 1788, Mr. Robert Grahame, of Gartmore, presented the University with £100 for the institution of a Prize for the best Essay on any subject intimately connected with the nature, foundation, advantages, and support of Political liberty. This prize—a Gold Medal—is open to the competition of all students of the University, and is given biennially. The surpluses to be accumulated till a capital is formed sufficient to form a Bursary.

GLADSTONE HISTORICAL PRIZE.—Founded in 1880 by the Gladstone Club, in commemoration of the Election in 1877 of the Right Honourable William Ewart Gladstone, M.P., as Lord Rector of Glasgow University, and in recognition of his distinguished career as a scholar, author, statesman, and orator. The following are the regulations:—

1. The Prize shall be given for the best examination in English

History.

2. The Examination shall be held biennially.

3. The value of the Prize shall be Twenty Guineas.

4. The competition shall be open to Graduates of Glasgow University of not more than two years standing from the date of their first graduation. The first competition will take place in January, 1882. Names of competitors to be given in to the Assistant Clerk of Senate not later than 1st December, 1881.

George Harvey Prize.—Founded in 1874, by the liberality of a donor who withholds his name, in memory of the late Mr. George Harvey, of No. 9 Park Quadrant, Glasgow. Annual value, ordinarily £20, which is given as a prize in the class of Civil Engineering, to the student who shows, during the session, the greatest proficiency in the department of Applied Mechanics and Shipbuilding. Any accumulation of surplus income to be given as a second prize of £5 or £10, in the same departments.

HENDERSON PRIZE.—In 1850, Mr. John Henderson, of Park, merchant in Glasgow, instituted an annual Prize of the value of £21 sterling,

<sup>\*</sup>The following masters are approved by the Senate—Mr. Walter Baynham, Mr. Henry Cooke, Mr. Thomas Harrower, Mr. William S. Vallance.

to be called the "Henderson Prize" for the best Essay on some subject relating to the Divine Authority and Practical Value and Influence of the Sabbath.

JEFFREY GOLD MEDAL.—Mr. Francis Jeffrey, advocate (afterwards Lord Jeffrey) on his re-election as Lord Rector of this University, in 1821, gave a prize of a Gold Medal, and continued to do so annually.

In 1849, Lord Jeffrey presented the University with the sum of £120 for a Gold Medal, to be awarded each session to the most distinguished

student of the Greek Class.

LUKE HISTORICAL PRIZE.—A sum of £150 was collected in 1863 by various friends of the late Mr. George Rankin Luke, in Oxford and Scotland, for the purpose of founding a Prize in his name, in connection with the University of Glasgow, where he studied during two years of his brilliant career as a scholar.

The Senate, with the sanction of the promoters of this fund, resolved to employ it to found a biennial Prize, for excelling in a competitive examination on general subjects connected with Ancient History and Literature. The examination to be conducted either altogether in writing, or by a combination of writing and viva voce questions; and the determination to rest with the Professors of Humanity and Greek, in conjunction, in case of uncertainty, with any one of their colleagues whom they may desire to nominate.

The Prize on the above foundation is given to the student who acquits himself best in an Examination in Ancient Greek and Roman History.

The next competition will be held in January, 1883. In addition to historical questions, original passages will be given for translation from the standard authors. The competition is open to all students who shall have attended during Session 1881-82 any Greek or Latin Class.

Macfarlan and Cook Testimonial Prize.—The Macfarlan and Cook Testimonial Prize of Twenty Guineas, instituted in 1847 (along with a similar Prize in the University of St. Andrews), by the friends of the late Principal Macfarlan, D.D., of this University, and Professor George Cook, D.D., of St. Andrews, as a memorial of the services rendered to the Church of Scotland by these eminent clergymen, is bestowed annually on the Theological student, of three years' standing, who shall pass the best examination in Greek, Moral Philosophy, Hebrew, Ecclesiastical History, and Divinity.

Subjects of Examination for Session 1881-82:—

Greek.—Luke ix. 51—xxiv. 53; Euripides, Hecuba.

Divinity.—Doctrine of the Person of Christ; Hill's Lectures, Book III—Biblical Theology—Epistle of James—Epistles to the Thessalonians.

Hebrew-Book of Zechariah.

Church History-The Fourth Century.

Moral Philosophy—Ferrier's Lectures on Greek Philosophy.

Candidates to give in their names to the Professor of Divinity on or before the 1st November.

MUIRHEAD PRIZES.—In 1776, Messrs. John Muirhead of Teggetsheugh, and Peter Muirhead, Minister of Dysart, brothers of the de-

ceased Mr. George Muirhead, Professor of Humanity in Glasgow College, presented a donation of £100, the interest to be applied in the purchase of Books to be awarded as Prizes to those students attending the Humanity Class who shall be thought most deserving.

RAE WILSON GOLD MEDAL.—Dr. William Rae Wilson, of Kelvinbank, who died 2nd June, 1849, bequeathed the sum of £300, two-thirds of the interest of which he appointed to be applied annually to the purchase of a Gold Medal to be bestowed upon the Divinity student who shall produce the best Prize Essay on "The Life of our Adorable Redeemer, Jesus Christ, His Righteousness, Atoning Death, and that Everlasting Benefit arising from these blessings to a lost and miserable world."

Saviony Foundation.—The Social Science Association have received from the President of the Juristic Society of Berlin a communication in reference to the prize of 6,900 marks to be offered in the year 1885 for an Essay on The Formulæ in the Perpetual Edict of Hadrian, in their Wording and Connection. The Savigny Foundation is a fund subscribed in commemoration of the great lawyer, Von Savigny, the interest of which is applied every two years in a prize for an essay on a legal subject, the Adjudicators being the Imperial or Royal Academies of Sciences of Vienna, Munich, and Berlin, in rotation. The competition, from which only the ordinary home members of the Royal Bavarian Academy are excluded, is confined to no nationality. The essays, which must be written in Latin, German, English, French, or Italian, must be sent in by the 28th March, 1882, addressed to the Royal Bavarian Academy of Sciences, and bearing, instead of the author's name, a motto, repeated on and in a closed envelope containing the author's name.

Further particulars may be had on application at the office of the

Social Science Association, 1 Adam Street, Adelphi, W.C.

Scott, daughter of the late Rev. Robert Allen Scott, Vicar of Cranwell,

Lincolnshire, in fulfilment of her father's intentions.

Mr. Scott, wishing to encourage the study of Greek in the University of Glasgow, of which he was an alumnus, and from which he obtained an Exhibition to Baliol College, Oxford, in 1825, dedicated to that purpose the sum of £100 for a Gold Medal, to be called "the Scott-Macfarlan Prize for Greek," in memory of Mr. Scott's kinsman, the late Principal Macfarlan, and to be given on the last day of the session in each year to the best scholar in Greek of the session; the Medal to be adjudged by the votes of the students of the upper Greek class. As the Jeffrey Medal has long been given to the best student in the senior Greek class, Miss Scott has consented to give the "Scott-Macfarlan" Medal to the best student in the middle class.

UNIVERSITY MEDAL.—The University bestows annually a Silver Medal for an Essay in Mental Philosophy.

Walker Prizes.—Four Prizes (consisting of Books or Instruments), to be competed for in each year by students of Civil Engineering and Mechanics, founded in 1857 and 1861 by James Walker, Esq., Civil Engineer, LL.D., F.R.SS.L. and E.

The competition is open to all persons who shall have duly entered themselves as attending the Class of Civil Engineering and Mechanics

during the current session.

The competitors are examined orally and in writing; and two of the Prizes are awarded on the results of the written examinations; the other two by votes of the class.

Watt Prize.—In 1808, James Watt, LL.D., presented the College with a perpetual annuity of £10, for the institution of a prize, to be awarded to the author of the best Essay on some subject in the following branches of study to be taken in rotation:—1. Any branch of Mechanics or its dependent Arts. 2. Statics, and the Machines and Arts dependent. 3. Pneumatics, Statical or Chemical, Machines and Arts. 4. Hydraulics, Hydrostatics, their Machines and Arts. 5. Chemistry, its Arts and Apparatus. All actual students who have completed or who, at the end of the session in which the Prize is awarded, shall have completed a regular course of study in Languages and Philosophy, may be competitors.

# 4. LIST OF BURSARIES, &c., OPEN TO COMPETITION DURING SESSION 1881-82.

#### I. BURSARIES.

The greater number of the Faculty of Arts Bursaries in the patronage of the Senate are awarded in accordance with the results of the Annual Bursary Examinations held at the commencement of the Winter Session.\* The various open Bursaries are awarded, according to their respective values, to those who stand highest in the List published by the Examiners. In the case of Bursaries restricted to the inhabitants of particular localities, the competitors have to undergo the same examination as those competing for open Bursaries, and the Bursaries are awarded to those students among the qualified candidates who pass the best examination. The Faculty of Arts are ready to receive at the same time for examination candidates for any Local Bursaries who may be sent to them.

The examination for these Bursaries is combined with the Preliminary Examinations in Latin, Greek, and Mathematics, and comprises papers in Latin and Greek Grammar and Syntax, Latin Prose Composition, translations of passages from ordinary Latin and Greek Authors, Mathematics (see p. 95), together with questions to test general know-

ledge and facility of composition in English.

The competitors for all Arts Bursaries are examined on the same set of papers, but the same standard of excellence is not expected from candidates for Bursaries for which the competition is restricted, as from candidates for open Bursaries; and in the case of Bursaries restricted to particular localities, or particular names or classes, students who show satisfactory knowledge of Latin and Greek Grammar, and of Arithmetic with the Elements of Mathematics, will be considered to have done well enough to have a Bursary awarded to them.

\*The following is the list of students who distinguished themselves in the Public Competition for Bursaries in November, 1880:—The Examination Questions are printed in the Calendar. (\*is attached to the names of students of the second year):

1, David Wilson, Hutchesons Grammar School; 2, Alexander Whyte, Hutchesons Grammar School; 3, Norman Fraser, Springhill Academy, Shawlands, and Hutche-

The examination for Bursaries in Theology is conducted by the Professors of the Theological Faculty. The examinations for Medical Bursaries and some others are subject to particular arrangements.

The following Bursaries are open to Competition in October and

November, 1881:-

November, 1661 .—				-
FOUNDATION.	No. of Bursar- ies.	FAGULTY.	Approximate Annual Value of each.	Page in Calen- dar.
Adam, John,	2	Theology,	£15	140
Armagh	1	Theol., Law, or Med.,	£25	148
Armagh,	3	Arts,	£25	125
Black,*	ĭ	Arts,	£20	125
Black,	1	Theology,	£40	141
Blackquarry School,*.	i	Arts,	£15	126
Browne (Ayrshire),*	i	Arts.	£17, 10s.	127
Buchanan,*	i	Arts,	£18	127
Clark, John (Mile-end),*	4	Arts.	£30	127
Cowan,*	1	Arts,	£35	128
Denny *	i	Any Faculty,	£30	149
Denny,* Ewing, James,*	î	Arts,	£20	130
Ferguson, James,	î	Theo. Law, Med, or Eng. Science		149
Forfar,*	î	Arts,	£20	130
Foundation,*	î	Arts,	£10	130
Fullarton of Overton,*	$\frac{1}{2}$	Arts,	£10	130
Hannay,*	1	Arts,	£15	131
Hastie,*	î	Arts,	£20	131
Hastie,	$\frac{1}{2}$	Theology,	£20	142
Jaffrey, John Ferguson,	ī	Arts,	£32, 10s.	132
Kerr, Malcolm,	î	Nat. Philosophy,	£18	132
Kerr, Malcolm,	î	Chemistry,	£18	144
Logan,	î	Theology,	£15	142
Logan,*	î	Medicine.	£15	144
Lorimer,		Arts (Philosophy),	£18	133
Lorimer,*	2	Arts (Mathematics),	£18	133
Lorimer,	2	Theology,	£18	142
Lorimer,	2	Medicine,	£18	144
MacGrouther,*	$\begin{bmatrix} 2\\2\\2\\2\\1\\1 \end{bmatrix}$	Arts,	£15	135
Marshall,*	l î	Theology,	£17	142
Merchants' House,*	Î	Law,	$\tilde{\mathfrak{L}}$ 25	144
Metcalfe,	$\frac{1}{2}$	Arts,	£25	135
Monteith (French),	ī	Arts,	£16	151
Notman,	1	Theology,	£16, 10s.	143
Orr Ewing (Dumbartonshire),*		Arts.	£25	137
Patrick, *	1	Arts,	£80	138
Pollock,*	î	Arts,	£35	139
Rainy,	1	Medicine,	£20	145
Ross, John, jun.,	Î	Theology,	£35	143
Stirlingshire (Glasgow)	-	111001083,		1 -0
Society,	1	Arts,	£25	140
,				1

sons' Grammar School; 4, Duncan Macartney, University of Edinburgh; 5, \*Thomas S. Donald, High School, Glasgow, and University of Glasgow; 6, James Strachan, E. C. Normal School, Glasgow; 7, Walter Wingate Hutchesons' Grammar School; 8, James Hinshelwood, University of Glasgow; 9, \*James Barr Kilmarnock Aca-

The examinations for the Bursaries marked \* above will commence on Friday, October 28th, at 10 A.M. The examinations in Latin and Greek will be held on Friday, October 28th, and Saturday, October 29th; in English, on Monday, October 31st; in Mathematics, on Tuesday, November 1st.

Candidates for the Bursaries in Theology will be examined on Thursday, Friday, and Saturday, 10th, 11th, and 12th November, at 10 A.M.

each day.+

To the Armagh Bursary the most distinguished Graduate in Arts of the year, who offers himself as a candidate, is appointed by the Senate.

The examination for the James Ferguson Bursary will be held on Saturday, 29th October, Wednesday, 2nd November, and Tuesday, 3rd November, at 10 a.m.; for the Malcolm Kerr (Chemistry), Lorimer, (Medicine), and Rainy Bursaries on Wednesday, 19th October, at 10 a.m.; for the Lorimer Bursaries (English Literature and Logic), on Saturday, 29th October, and Wednesday, 2nd November, at 10 a.m.; for the Malcolm Kerr (Natural Philosophy) Bursary, on Saturday, 5th November, at 9 a.m.; for the Metcalfe Bursaries on Friday and Saturday 4th and 5th November; and for the Monteith (French) Bursary, on Saturday, November 5th, at 10 a.m.

Candidates for the Bursaries marked \*, and for the Metcalfe and Monteith Bursaries are required to give in their names to the Assistant-Clerk of Senate, not later than 21st October; for the James Ferguson, Malcolm Kerr (N. Phil.), and Lorimer (Phil.) Bursaries, not later than

demy and University of Glasgow, and James Macdonald, private study (equal); 10, Robert A. Young, Glasgow Academy; 11, William Hay, Burgh Academy, Dumbarton; 12, Charles C. Grant, High School, Glasgow; 13, William M'Gill, High School, Glasgow; 14, James Cameron, Elgin Street Academy and Hutchesons' Grammar School; 15, Hugh M'Intyre, Hutchesons' Grammar School; 16, Trafford Mitchell, High School, Glasgow, and University of Glasgow; 17, William Struthers, High School, Glasgow, and University of Glasgow; 17, William Struthers, High School, Glasgow, and Hutchesons' Grammar School; 18, Robert Morris, Langside Academy, and High School, Glasgow; 20, Robert M. Stewart, High School, Glasgow; 21, James F. Johnstone, Thorne School, Johnstone, and Grammar School, Paisley; 22, Andrew M. Smith, Cumnock F. C. School, and Ayr Academy; 23, Charles Mackinnon, University of Glasgow; 24, Pugald Butler, High School, Glasgow, 24, Paugald Butler, High School, Glasgow, 24, Pugald Butler, High School, Glasgow, 26, Peter C. Bryce, Burgh Academy, Dumbarton, and Peter M'Clure, Glasgow Academy Cequal; 27, James Scott, Highland Society Schools, Glasgow; 28, \*Charles M. Aikman, Glasgow Academy, and University of Glasgow; 29, Duncan A. Reid, Loretto School, Midlothian; 30, Archibald W. Bain, Greenock Academy; 30, David A. M'Nab, Rothesay Academy, and University of Glasgow; and Basil Jackson, Hutchesons' Grammar School (equal); 32, William Stewart, private study; 33, John M. Johnston, Burgh Academy, Dumbarton; 34, \*John M. Wilson, Kilmarnock Academy, and University of Glasgow; and Basil Jackson, Hutchesons' Grammar School (equal); 32, William Stewart, private study; 33, John M. Johnston, Burgh Academy, Dumbarton; 34, \*John M. Wilson, Kilmarnock Academy, and University of Glasgow; 34, Milliam M. Mackay, High School, Glasgow.

 $\dagger$  The following will be the subjects of Examination for Bursaries in Theology in November, 1881:—

Latin—Cicero, De Officiis, Book I.; Virgil, Eneid, Book IX—Translation from English into Latin.

GREEK-Xenophon, Memorabilia, Book IV.-Second Epistle to the Corinthians.

MATHEMATICS—Euclid, Books I.-III. Algebra to Quadratic Equations inclusive.

NATURAL PHILOSOPHY—Balfour Stewart's Elementary Physics.

Logic-Jevons' Elementary Lessons in Logic.

MORAL PHILOSOPHY—Fleming's Manual, Part I.

ENGLISH—History of English Literature in 18th Century—Essay on a subject to be prescribed.

10th October; and for the Lorimer (Medicine), Rainy and Malcolm Kerr (Chemistry) Bursaries not later than Saturday, 1st October; Candidates for the Bursaries in Theology, to the Clerk of Senate not later than Friday, 4th November. Candidates for the James Ewing and Merchants' House Bursaries, must besides give in their names to the Clerk of the Merchants' House, Glasgow, not later than 1st September; candidates for the Hannay Bursary to Mr. Robert Brodie, 87 St. Vincent Street, not later than 1st October. A schedule, which is to be filled up by each candidate, may be obtained from the Assistant-Clerk of Senate.

N.B.—In the case of any Bursary given on examination, the Senate have resolved that the Bursary will not be granted if the Examiners report that no candidate has done sufficiently well at the examination.

### 2. SCHOLARSHIPS, &c.

The following Scholarships, &c., will be open to competition in Session 1881-82:—

FOUNDATION.	No.	OPEN TO	Approximate Annual Value of each.	Page in Calen- dar-
Black Theological, Clark, George A., Clark, John (Mile-end), Eglinton, Ferguson, Findlater,	1 2 2 1 3 1 1 2	Masters of Arts of Glas. Univ., Do. Glas. Univ., Students at close of Arts Curric., Masters of Arts, &c. of Glas. Univ., Do. Scot. Univ., Divinity Students, Masters of Arts of Glas. Univ., &c., Do. Do.	£147 £225 £50 £100 £80 £40 £100 £110	162 160 157 155 163 159 158 153

For further information, see the Calendar at the pages indicated above.

# 3. PRIZES.

# I. For Essays:

- 1. In Natural Philosophy, the Cleland Gold Medal, for the best Experimental Investigation of Magnetic Susceptibility. All Students of the Natural Philosophy Class, in Session 1880-81, or Session 1881-82, may be competitors. The Physical Laboratory of the University will afford the requisite experimental means for candidates for this prize.
- 2. In Mental Philosophy, the University Silver Medal, for the best Essay on "Modern Materialism." All Students of the Classes of Logic, Moral Philosophy, or English Literature, in Session 1880-81, or Session 1881-82, may be competitors.

- 3. The Gartmore Gold Medal, for the best Essay on "The Application of the Idea of Development to Social and Political Life." All Matriculated Students of the University, in Session 1881-82, may be competitors.
- 4. The Watt Prize of Ten Pounds, for the best Essay on "The Liquefaction of Gases." All Matriculated Students of the University, in Session 1881-82, who have finished, or who, on the 1st of May, 1882, shall finish a regular course of Languages and Philosophy, may be competitors.
- 5. A COULTER PRIZE OF FIVE POUNDS for the best Essay in English Literature—subject, "Periodical Literature."
- 6. A COULTER PRIZE OF TWO POUNDS TEN SHILLINGS for the best Translation into Verse of Æschylus, Eumenides, 566 κήρυσσε, κῆρυξ . . . to 777 καὶ δορὸς νικηφόρου.

For the Coulter Prizes, all Matriculated Students of the University,

in Session 1881-82, may be competitors.

7. THE RAE WILSON GOLD MEDAL for the best Essay on "Christ's Citations from the Old Testament." All Students attending the Divinity Class, in Session 1881-82, may be competitors.

S. The HENDERSON PRIZE OF TWENTY GUINEAS for the best Essay n the question, "Sabbath Observance in England in the Time of the Puritans." All Matriculated Students of the University, in Session

1881-82, may be competitors.

The Essays must be given in to the Principal, on or before Monday, 14th November, 1881, after which day none can be received. Each must be distinguished by two mottoes, and accompanied by a sealed letter, bearing on the outside the same mottoes, and containing a declaration subscribed by the author that the Essay is entirely of his own composition. All quotations in the Essays must be carefully marked, and accurate references to their respective authorities given in the notes.

#### II. For Examination-

- 1. An Arnott Prize of about £15 for examination in General Physics, open to students of the first and second years of their medical studies.
- 2. An Arnott Prize of £25 for examination in Physiological Physics, or the application of the doctrines of General Physics to Physiological Science open to students of the third and fourth years of their medical studies. The examination for the Arnott Prizes will be held on Saturday, 5th November, 1881, at 3 P.M. Names of Candidates to be given in to the Assistant-Clerk of Senate on or before 10th October; see p. 167.
- 3. The Brunton Memorial Prize, value about £10 sterling, is given to the most distinguished graduate in Medicine of the year.
- 4. The GLADSTONE HISTORICAL PRIZE OF TWENTY GUINEAS, for the best examination in English History. Open to Graduates of Glasgow

178 PRIZES.

University of not more than two years' standing. Names of candidates to be given in to the Assistant-Clerk of Senate not later than 1st December; see p. 170.

5. The Macfarlane and Cook Testimonial Prize of Twenty Guineas, open to Theological students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity. Names of candidates to be given in to the Professor of Divinity on or before 1st November; see p. 171.

Note.—The Buchanan, Cowan, Dowanhill, George Harvey, Jeffrey, Muirhead, Scott-Macfarlan, and Walker Prizes, bestowed annually, are Class Prizes, for which see Index of Prizes, p. 167.

# VI.—HONOUR LIST.

# LIST OF NAMES OF GENTLEMEN WHO HAVE TAKEN DEGREES WITH HONOURS SINCE THE YEAR 1836.

# MASTERS OF ARTS (M.A.)

			Class o	of Honours	and Depar	rtment.
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science,
1836	John Cunningham,	Scotland,			I	
,,	William Fulton,	do.,	11	II		
1837	Richard Shaen,	England,			. 11	•••
,,	Thomas E. Richardson,	do.,			II	
,,	John Blair,	Ireland,			II	
,,	William Cuthel,	Scotland,			11	****
1840	Duncan H. Weir,	do.,			II	• • • •
,,	James Thomson,	do.,			II	
,,	John Buchanan,	do.,			II	•••
1841	John D. Morell,	England,	11	II		
,,	William Arthur Jones,	Wales,	11	II		• • • •
1842	Alexander Grierson,	Scotland,			II	
,,	John Davies,	England,	11	II		•••
1843	Nathaniel Haycroft,	do.,	II	II		•••
,,	John Trafford,	do.,	II	II		•••
,,	David Duff,	Scotland,			II	•••
1844	John Morgan,	do.,			II	•••
,,	John Thomson,	do.,			II	•••
,,	William T. Ker,	_do.,			II	•••
,,	Richard Tomlinson,	England,	II	II		•••
,,	David M'Lauchlan,	Scotland,	11	II		•••
1846	Robert Graham,	do.,			II	•••
1847	William John Steele,	Ireland,		•••	II	•••
,,,	James Porter,	do.,	•••	•••	II	•••
1848	Adam Milroy,	Scotland,	11	11	•••	•••
,,,	Walter D. Jeremy,	England,	ΙΙ	II	•••	•••
1849	John Ker,	Scotland,	•••		1	•••
"	George M'Queen,	_do.,			I	•••
,,	Henry Martyn Barker,	England,	I	I	•••	•••
1070	John Newton Langley,	do.,	I	I		•••
1850	Alexander Walker,	Scotland,	II	II		•••
,,	Horatio Lindsay Taplin,	England,	II .	II		••
1051	Robt. Masters Theobald		II	II		•••
1851	Carstairs Douglas,	Scotland,	•••	•••	II	•••
		N				

		Class o	f Honours	and Depar	rtment.
		Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1851	Daniel Davies Jeremy, England,	II	II		
1852	Thomas Logan, Scotland,			II	
,,	James Wylie Johnston, do.,	II	II		
1853	Chas. Abercromby Smith, do.,			ı	
,,	William Jack, do.,			I	
,,	Edward Gibbs, England,	I	I		
1856	James Galbraith, Scotland,			II	
,,	John Murray, do.,			II	
1857	Joseph D. Everett. England,	II	II	I	
29	George M. Grant, Nova Scotia,		I		
,,	David Herbert, Scotland.		II		
1858	Neil M'Pherson, do.,	II	II		
1858	William R. Pattison, do.,	II	II		
,,,	John Weir, do.,	•••	II		
1859	Robert Whyte, do.,	•••	II		
1860	George Porter, do.,	II	11		• • • •
,,	Joseph Gardner, do.,	•••	II		
,,	Walter Roberts, do.,	•••	II		
1861	Richard Vary Campbell, do.,		I		
,,	Daniel Munro, do.,	H			•••
1000	Peter Sinclair Menzies, do.,	II			•••
1862	John M'Lean, do.,	II	II		• • •
,,	Thomas Carruthers do.,	11	II		•••
,,	William Stewart, do.,	II	II		• • •
"	George Mathieson, do.,	•••	II		•••
"	Henry W. Bell, India,	•••	II		•••
1863	John Ferguson, Scotland,	•••	1 :::		I
1866	David Thomas, do.,		II	•••	•••
1000	John Mann, do.,	I		•••	•••
1867	John Fergusson, do.,		II	•••	
	William E. Grigsby, England, James Smith, Scotland,	II	•••		•••
,,			•••	I	•••
1868	William Ross, do., Robert Stewart, do.,		I	II	•••
	John Wilson, do.,	•••	I	•••	•••
1869	Favour James Greg, do.,	•••	I		•••
	Adam Semple, do.,	•••	I		
"	Joseph Loudon, do.,	•••		11	
,,	James M'Intosh, do.,		I	1	•••
1870	John Cross, U.S.A.,	 I	I	•••	
-	Matthew M. Dickie, England,	II	I	•••	
,,	James Orr, Scotland,		I	•••	
"	Robert A. Sinclair, do.,		111		
,,	James D. H. Dickson, do.,		11	11	
,,	Dugald M'Kichan, do.,			II	
,,				1	

			Class	of Honours	and Depa	rtment.
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1871	William S. Fleck,	Scotland,		I		
,,	William Oliver,	Wales,		II		
,,	John E. H. Thomson,	Scotland,		II		•••
,,	Colin R. M'Clymont,	do.,		I		
,,	Charles S. Dickson,	do.,		II	II	
1872	William Hamilton,	do.,		I		
,,	John Watson,	do.,		I		• • •
,,	Zachary M. H. Ross,	do.,		II		
,,	Archibald Russell,	do.,	•••	II		•••
,,	William G. Miller,	do.,			II	•••
,,	John M. Brown,	do.,		I		
,,	Alexander S. Macphee,	do.,		I	.:.	***
,,	James C. MacTaggart,	do.,			I	•••
1873	James Henderson,	do.,		•••	II	
18/3	William Bathgate,	do.,	I	I		•••
"	John M'Cunn,	do.,	•••	1	.:.	
"	T. Lindsay Galloway, David Hunter,	do.,			I	•••
,,	Robert Harvey,	do.,	I			•••
,,	Thomas H. Miller,	do., do.,	-		 I	••
,,	Buchanan Blake.	do.,	•••	 II	_	•••
,,	James Arthur,	do.,				***
1874	James Bonar,	do.,	I	Ι Ι		•••
	James G. Frazer,	do.,	ī			
,,	Alexander F. Fraser,	do.,		T		•••
"	John Wilson Reid,	do.,	I	i	II	
"	Colin Campbell,	do.,	II	I		•••
,,	James Thomson,	do.,		ī		
,,	Hugh Hart Currie,	do.,	II			
,,	James MacKay,	do.,	11			
1875	Benj'n F. C. Costelloe,	Ireland,	11	I	1	
,,	William Yuill King,	Scotland,	I			•••
,,	William Patrick,	do.,		I		•••
,,	John Patrick,	do.,	11			
,,	James S. Russell,	do.,			I	•••
,,	John C. Watt,	do.,			1	***
,,	John B. Douglas,	England,	H			
,,	Neil D. MacLachlan,	Scotland,		II		
,,	James Johnston Dobbie,	do.,			•••	I
1876	James Lambie,	do.,		I	• • •	•••
,,	Ebenezer B. Speirs,	do.,		I		
,,	Islay F. Burns,	do.,	II			•••
,,	Robert MacLehose,	do.,		II		***
,,	Joseph Conn,	do.,			II	•••
,,	Robert H. Pinkerton,	do.,			II	

			Class of Honours and Department.			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1876	David Wilson,	Scotland,	•••		II	•
,,	John P. Mitchell,	do.,		I		y
,,	William M. Rankin,	do.,	•••	1		
,,	Andrew Gray,	do.,			11	
1877	Wallace M. Lindsay,	do.,	I	II	1	
,,	Alexander S. Wilson,	do.,				I
,,	James Kidd,	do.,		I		
,,	Thomas B. Kilpatrick,	do.,		1		
,,	Mungo W. M'Callum,	do.,		II	1	
,,	William Allan,	do.,			II	
,,	James Arthur,	do.,			II	
1878	Robert Mackintosh,	do.,	II	I		
,,	John Edgar,	do.,	1			
,,	John M. Dodds,	do.,			I	•••
,,	David W. Forrest,	do.,		II		
,,	Alexander Isdale,	do.,	•••	I		
,,	Lewis A. Muirhead,	do.,		I		
,,	James Wilson,	do.,	ΙI		II	
1879	John Wilson Marshall,	do.,	I	II		
,,	Francis Wm. Clark,	do.,	ΙΙ	II		
,,	Henry Jones,	Wales,		I		• • • •
,,	William T. Bankhead,	Scotland,		II		
,,	Andrew Rutherfurd,	do.,		II		
,,	James Thomson,	Ireland,			II	
,,	James Denney,	Scotland,	I	I		
,,	James Kippen Duff,	do.,	I			•••
,,	Robt. Tannahill Young			II		
,,,	William L. Macindoe,	do.,			II	
1880	Alexander Gregory,	do.,	II			
,,	Gregory, Thomas,	do.,	I	I	I	
,,	Cumming, Alexander N		II	II		
,,	Reyburn, Hugh Young		II	II	•••	•••
,,	Dow, John G. A.,	do.,	II			
,,	Henderson, John,	do.,	•••	II		•••
1881	Swan, Cecil J.,	do.,	II			•••
				1		

# BACHELOR OF SCIENCE (B.Sc.).

# BACHELORS OF ARTS (B.A.)

			Classics.	Mental Philosophy.
1838 ,,, 1852 1856	William M'Kellar, Francis Tucker, Samuel Crusha Sarjant, David Johnston,	Scotland, England, do., do.,	11 11	 I II
1857 1858 1861	Andrew Moody, William T. Johnston, John MacLeod, Thomas Robinson,	Scotland,do., do.,England,	 I 	II II II

# DOCTORS OF MEDICINE (M.D.). (O.R.) HONOURS.

1845	Alexander Lindsay,	Scotland.	1853	Richard Stanistreet,	Ireland.
,,	James Craigie Murray,	do.	,,	David Knox,	do.
,,	Francis Reynolds,	Ireland.	1854	John Lindsay Stewart,	Scotland.
,,	John Brown,	Scotland.	,,	James Fraser Paton,	do.
22	John Gardiner,	do.	,,	David Easton,	Ireland.
,,		le of Man.	1855	William Leishman,	Scotland.
,,	Adam Nicholson,	Scotland.	,,	William J. Lewis, New	
,,	John Duke,	Ireland.	,,	Alexander Robertson,	Scotland.
1847	William Parry,	Wales.	1857	Thomas Beaumont,	Ireland.
,,	Robert Livingstone,	Scotland.	,,	Joseph M. Fleming,	Scotland.
,,,	Alexander B. Sharpe,	do.	. 22	Maxwell Rodgers,	Ireland.
1848	Charles H. Hitchen,	England.	1858	John Couper,	Scotland.
,,	James Steven,	Scotland.	1 320	Thomas M'Call Anderso	
,,,	John Coates,	Ireland.	1859	Daniel Dougal,	do.
1849	Robt. Brown M'Clelland,		1861	William Marshall,	America.
,,	Thomas Nicholson,	Scotland.	1862	John M. Murray,	Scotland.
,,	Robert Settle,	England.		James A. Allan,	do.
,,	Richard Thomas Tracy,	Ireland.	1863	Robert M'K. Duncan,	do.
1850	Matthew John Rae,	Scotland.	,,	George M'Donald,	do.
	John Ternan,	Ireland,	,,	Samuel J. Moore,	Ireland.
"	John Henry Eddowes,	England.	"		ova Scotia.
1851	James Brash,	Scotland.	,,	T. Algernon Chapman, Algernon Wood Smith,	Scotland.
	Alexander Marshall,	Ireland.	,,	John P. Atkinson,	
,,	Andrew Spearing, James B. Montgomery,	England.	1864	John Wyber,	England. Scotland.
,,	Robert Perry,	Scotland	_	J. G. Wilson, M.A.,	do.
"	John Watson, B.A.,	do.	1865	Arthur A. Jamieson,	England.
1853	John Ritchie Brown,	do.	1867	Fred. H. Quaife, M.A., Syd	
	Charles D. Campbell,	Ireland.	1901	rieu.ii. Qualle, M.A., Sy	mey N.S. W.
,,	Charles D. Campben,	TI CIGIIII.			

# DOCTORS OF MEDICINE (M.D.). (N.R.)

#### COMMENDED FOR THESIS.

1876. William Gardner, M.B., England.

1000 I D . 1 . 4 W. T.

1877. William James Fleming, M.B., Scotland. Thesis, "The Ethnology of the Motu." 1879. William James Fleming, M.B., Scotland. Thesis, "The Dicrotic Notch in

Pulse Tracings,"
1880. Thomas Oliver, M.B., Scotland. Thesis, "Heredity viewed in its relation

to Responsibility."

1880. Bryce, James, M.B., Scotland. Thesis, "That Mankind originated as a Common Family—most probably on a Continent in the Indian Ocean—certainly within the Tropics."

1881. Adams, James Alexander, M.B., Scotland. Thesis, "Anatomical Relation

between Abscess of Brain and Aural Disease."

1881. Stewart, Alexander, M.B., Scotland. Thesis, "History of a Personal Attack of Typhoid Fever."

# BACHELORS OF MEDICINE (M.B.). HONOURS.

1900	Robert W. Forrest,	Scotiana.	1910	Richard B. Macpherson, Scotland.
,,	Henry T. Pringle,	do.	1877	Johan B. Knobel, Africa.
1867	Ebenezer Duncan,	do.	,,	Donald Macphail, Scotland.
,,	Joseph Coats,	do.	,,	John Carlyle Johnstone, do.
,,	James Finlayson,	do.	,,,	Edward D. M. Mackellar, do.
1868	Thomas Barr,	do.	1878	Alexander Fraser, do.
,,	William MacLachlan,	do.	,,	James Morton, do.
,,	Angus Macmillan,	do.	,,	William Partington, do.
1869	James Coats,	do.	,,	Lawrence A. Waddell, do.
1871	David Wilkie,	do.	1879	William K. Peden, do.
	John Aikman,	do.	,,	Ralph D. Stevenson, Australia.
1872	John D. Macdonald,	do.	1880	Hogarth, Andw. A., M. A., Scotland.
	Samson Gemmell,	do.	,,	M'Gregor-Robertson, J., M.A., do.
1876	Geo. S. Middleton, M.A.,	do.		Steven, John Lindsay, do.

# VII.—DEGREE AND PRIZE LIST.

# LIST OF DEGREES

CONFERRED IN THE SEVERAL FACULTIES, AND OF PRIZES AND CERTIFICATES OF HONOUR AWARDED IN THE SEVERAL CLASSES OF THE UNIVERSITY DURING SESSION 1880-81.

# DOCTORS OF DIVINITY (D.D.)

Rev. William Laughton, Minister of St. Thomas's Free Church, Greenock, Moderator-Designate of the Free Church General Assembly.

Rev. John Gemmel, M.A., Minister of Free Church, Fairlie.

Rev. James Curdie Russell, Minister of Campbeltown.

Rev. Oliver Flett, Paisley, Theological Tutor to Baptist Union of Scotland.

Rev. William Salmond, Professor of Theology to Church of Otago and Southland, New Zealand.

# BACHELORS OF DIVINITY (B.D.)

Main, James, M.A., Scotland MacEwen, Alex. R., M.A., Scotland Kidd, James, M.A., Scotland Marshall, James, M.A., Scotland Rankine, William, M.A., Scotland

Clow, William, M.A., Scotland Isdale, Alexander, M.A., Scotland Johnston, Robert, M.A., Scotland Kean, William, M.A., Scotland Muirhead, Lewis A., M.A., Scotland Stewart, Alexander, M.A., Scotland Woodside, David, M.A., Scotland

# DOCTORS OF LAWS (LL.D.)

F. M. Balfour, Esq., M.A., Fellow of Trinity College, Cambridge Robt. A. Smith, Esq., F.R.S., Government Inspector of Alkali Works Richard Owen, Esq., C.B., F.R.S., Superintendent of Natural

History Collections of the British Museum

Andrew Buchanan, Esq., M.D., Emeritus Professor of Physiology in the University of Glasgow. Henry Sidgwick, Esq., M.A., Prælector of Moral and Political

Philosophy, Trinity College, Cambridge.

Rev. John Black, M.A., Professor of Humanity in the University of Aberdeen.

# BACHELORS OF LAWS (LL.B.)

Brown, John Blair, M.A., Scotland Mackay, Herbert, J. H., M.A., Scotland Swanston, William, M.A., Scotland

Allan, George Frederick, M.A., Scotland

Blyth, John G., M.A., Scotland Craig, Archibald, M.A., Scotland Cross, Thomas, M.A., Scotland

# BACHELORS OF LAW (B.L.)

Barr, Patrick, Scotland Kidston, William, Scotland Lochhead, James, Scotland Lowndes, Henry Francis, Scotland MacKechnie, John Maclellan, Scotland MacLachlan, John B., Scotland Smith, William, Scotland

Steuart, John Willox, Scotland

Galbraith, John S., Scotland Mair, John, Scotland Paterson, John Somerville, Scotland Smith, John S. W., Scotland

# DOCTORS OF MEDICINE (M.D.)

\*Bryce, James, M.B., Scotland (Thesis-That Mankind originated as a common family—most probably on a continent in the Indian Ocean—certainly within the Tropics)

Denniston, James, M.B., Scotland (Thesis—The Medical and Surgical History of the latter part of the late campaign in Armenia)

Dun, William G., M.B., Scotland (Thesis—Malignant Pustule or Anthrax, its Symptoms, Pathology, and Treatment)
Elder, George, M.B., Ireland (Thesis—Gynaecological Notes)
Gemmell, Samson, M.B., Scotland (Thesis—Arterial Tension in Bright's Disease,

from a clinical point of view)

Hunt, Thomas, M.B., Scotland (Thesis—Is not Prevention better than Cure?)
Hutchison, James, M.B., Scotland (Thesis—A Sporadic case of Enteric Fever occurring in a remote district in the Western Highlands)
Jones, James Arthuir, M.B., Wales (Thesis—Treatment of Corneal Affections)
Young, Thomas, M.B., Scotland (Thesis—Cancer of Liver, with doubtful symptoms during life)

Carlyle, John, M.B., Scotland (Thesis—Tetanus, more especially with respect to treatment by Hydrate of Chloral)

Marriott Osborne D., M.B., England (Thesis

\*Adams, James Alexander, M.B., Scotland (Thesis—Anatomical relation between Abscess of Brain and Aural Disease)

Mackay, Archibald, M.B., Scotland (Thesis—Observations on a case of Tubercular Meningitis following the opening of a Caseous Tumour)
Macnaughton, Allan, M.B., Scotland (Thesis—Medical and Surgical Experiences in a Highland Parish)

Paton, James, M.B., Scotland (Thesis—Experiences as Acting Surgeon to a Provincial Hospital)

\*Stewart, Alexander, M.B., Scotland (Thesis-History of a Personal Attack of Typhoid Fever)

\* Commended for Thesis

# BACHELORS OF MEDICINE AND MASTERS IN SURGERY (M.B. & C.M.)

Adam, Alexander, Australia
Anderson, Matt. S., M. A., Scotland
Blyth, David, Scotland
Bond, John, Scotland
Bond, John, Scotland
Bond, Johnsen, Australia
Brown, John T., Scotland
Gampbell, Walter Scott, Scotland
Campbell, Walter Scott, Scotland
Davidson, Thomas, Scotland
Dinsmore, Geo. H. J., England
Fraser, Wm., Scotland
Ginsmore, Geo. H. J., England
Gemmell, Thomas P., Scotland
Gilbrist, Robert M., Scotland
Gilbrist, Robert M., Scotland
Gilbrist, Robert M., Scotland
Grant, David, W. M., Scotland
Johnston, Alexander, Scotland
Johnston, Alexander, Scotland
Jones, Wm. Rees, Wales
Kaye, James, Scotland
Kerr, John G. Douglas, Australia
Kilpatrick, Alexander, Scotland
Kirkland, Robert, Scotland
Kirkland, Robert, Scotland
Lidle, William T., Scotland
Liddle, William T., Scotland

Love, James K., Scotland
Macaulay, John T., Scotland
M'Crorie, Archibald, Scotland
M'Dougall, Hugh, Scotland
M'Dougall, Hugh, Scotland
Macindoe, Alexander, Scotland
Mackay, Alexander D., Scotland
Mackay, Hugh, Scotland
M'Kenzie, John, Scotland
M'Lennan, Quintin, Scotland
M'Lennan, Quintin, Scotland
M'Leod, Donald, Scotland
Martin, Alexander, Scotland
Martin, Alexander, Scotland
Morison, Donald, Scotland
Morison, Donald, Scotland
Morton, Alex., M.A., Scotland
Ochiltree, E. G., Australia
Picken, James F., Scotland
Reid, John, Scotland
Ritchie, John, Scotland
Scott, George, England
Speirs, John, Scotland
Stevenson, John P., Scotland
Taylor, Robt. G., Cape of Good Hope
Topping, John P., Scotland
Wilson, James A., Scotland

M'Culloch, Allen, Scotland M'Gregor-Robertson, J., M.A., S'land M'Vean, John D., Scotland

Baynes, Joseph, Scotland Dougall, John M'Phail, Scotland Hamilton, James, Scotland Parmer, William F., India Steven, John Lindsay, Scotland Walker, John M., Scotland

Oswald, David R., Scotland Russell, William, Scotland Sinclair, Eric, Scotland

# BACHELORS OF MEDICINE (M.B.)

Babtie, William, Scotland Brown, Wm. H. J., Scotland Cluckie, Niven Gordon, Scotland Macintyre, Alexander, Scotland Palmer, Benjamin A., Ireland Pollock, Charles Fred., Scotland Rankin, Guthrie, Scotland Turnbull, Ridley, England

Haydon, Francis Edward, England

The following gentlemen were named as entitled to Honours, to High Commendation, and to Commendation, on account of distinguished merit at the various examinations for the Degrees of M.B. and C.M.

# I.—Honours.

Hogarth, Andrew A., M.A. M'Gregor-Robertson, Joseph, M.A. \*Steven, John Lindsay

# II.—HIGH COMMENDATION.

Inglis, David W., M.A.

Pollock, Charles Fred.

\* Mr. Steven gained the Brunton Memorial Prize, awarded to the most distinguished Graduate in Medicine of the year (1880).

### III.—COMMENDATION.

Anderson, Matthew S., M.A. Blyth, David
Fraser, William
Gilbert, Robert
Grant, David
Love, James K.
M'Dougall, Hugh

Mackintosh, Malcolm Mackay, Hugh Martin, Alexander Morton, Alexander, M.A. Palmer, Benjamin A. Rankin, Guthrie Sinclair, Eric

# MASTERS OF ARTS (M.A.)

#### HONOURS.

With First Class Honours in Classics, in Mental Philosophy, and in Mathematics and Natural Philosophy.

Gregory, Thomas, Scotland.

With Honours in Classics and Mental Philosophy.

Cumming, Alexr. N., Scotland | Reyburn, Hugh Young, Scotland

With Honours in Classics.

Dow, John G. A., Scotland | Swan, Cecil J., Scotland

With Honours in Mental Philosophy. Henderson, John, Scotland

### ORDINARY DEGREE.

Bonar, Thomas Y., Scotland Carrick, John Charles, Scotland Cunningham, David, Scotland Duncan, Hugh, Scotland Findlay, Arthur, Scotland Galt, Walter A., Ireland Hedderwick, A. W., Scotland Hislop, John, Scotland Laird, Andrew L., Scotland Loudon, Alexander, Scotland M'Cormick, William S., Scotland M'Crone, Robert, Scotland M'Crone, Robert, Scotland

M'Gregor, George, Scotland MacKinnon, Charles, Scotland M'Lean, Hector, Scotland M'Lean, Hector, Scotland MacOmish, Robert, Scotland MacRae, Roderick C., Pr. Ed. Island Marr, Donald M'C., Scotland Mitchell, Geo. A., Scotland Moore, Alexr. G., Scotland Osborne, Alexr. G., Scotland Simpson, James, Scotland Ure, Robert, Scotland

Adam, James A., Scotland Aitken, David, Scotland Anderson, George, Scotland Anderson, George, Scotland Asheroft, Francis, Scotland Barlas, Alex. R., Scotland Blair, John F., Scotland Browning, Robt. L., Scotland Brown, Duncan, Scotland Brown, Duncan, Scotland Bryce, James H., Scotland Butchart, Wm., Scotland Campbell, Archd., Scotland Clark, James, Scotland Clark, James, Scotland Davies, John E., Wales Denoon, Benjamin, Scotland Gibson, George A., Scotland Gibson, John, Scotland Gray, Wm., Scotland Harvey, James, Scotland Hary, Wm., Scotland Hay, Wm., Scotland, Johnston, Henry W., Scotland Key, David R., Scotland Rey, Scotland R., Scotland Rey, David R., Scotland Rey, David R., Scotland Rey, David R., Scotland

Macaulay, George, Scotland
M'Ellwee, George M., Scotland
M'Callum, John D., Scotland
M'Innes, John, Scotland
M'Innes, John, Scotland
M'Inaid, George R., Scotland
M'Ilraith, John R., Holland
Maltman, John, Scotland
Miller, James H., Scotland
Nichol, Harvey, Scotland
Rae, John R., Scotland
Riddick, Samuel M., Scotland
Robertson, Andw., Scotland
Robertson, Andw., Scotland
Ross, Edward, England
Rutherfurd, Henry, Scotland
Samuel, George, England
Simpson, Richd., Scotland
Stewart, Alexr., Scotland
Stewart, Henry, Scotland
Stewart, Henry, Scotland
Swanson, James, Scotland
Wilson, Adam, Scotland
Wilson, Adam, Scotland
Wilson, John, Scotland

# BACHELORS OF SCIENCE (B.Sc.)

IN ENGINEERING SCIENCE.

Moore, Thos. Robert, Scotland | Simpson, Robert, Scotland

IN GEOLOGICAL SCIENCE.

Fullarton, John Hamilton, Scotland | Wilson, James, M.A., Scotland

IN BIOLOGICAL SCIENCE.

Thomson, Robert Stevenson, Scotland.

CERTIFICATE OF PROFICIENCY IN ENGINEERING SCIENCE. Simpson, Robert, C.E., Scotland. | Wyper, William, C.E., Scotland.

Brown, John, C.E., Scotland | Henderson, David Young, C.E. Scotland.

# DEPARTMENTAL CERTIFICATES.

### I.—FOR DEGREE OF B.D.

### 1. IN DIVINITY AND CHURCH HISTORY.

Anderson, John, M.A.
Bankhead, William T., M.A.
Clow, William M., M.A.
Downie, John, M.A.
Isdale, Alexander, M.A.
Johnston, Robert, M.A.
Kean, William, M.A.

Macmillan, Donald, M.A. Muirhead, Lewis A., M.A. Newlands, Thomas S., M.A. Stevenson, William, M.A. Stewart, Alexander, M.A. Woodside, David, M.A.

### 2. In Hebrew and Biblical Criticism.

Clow, William M., M.A. Isdale, Alexander, M.A. Johnston Robert, M.A. Kean, William, M.A. Kidd, James, M.A. MacEwen, Alexr. R., M.A. Main, James, M.A. Marshall, James, M.A. Muirhead, Lewis A., M.A. Rankine, William M., M.A. Stewart, Alexander, M.A. Woodside, David, M.A.

# II.—FOR DEGREE OF M.A. 1. IN CLASSICAL LITERATURE.

Allan, William
Baird, John
Baird, John
Bill, George T.
Blake, John
Bruce, Robert
Bryce, Morison
Campbell, Donald
Cumming, James E.
Davies, John L.
Deas, Andrew Orr
Dunlop, Alexander W.
Dunlop, Douglas
Drysdale, John
Edgar, John
Farquhar, H. Wood
Fergus, Robert M.
Francis, David L.
Gemmell, William B.
Grierson, Robert C.
Harvey, Daniel
Howell, Arthur S.

Hunter, John S.
Hurry, Alfred A.
Jenkins, Thomas
Johnston, David
Kirkland, George A. D.
Laidlaw, Archibald S.
Lamberton, Wm. B.
Lambie, Gavin
Lang, John Muir
Lennox, Alexander
M'Adam, Robert
M'Callum, Gavin S.
M'Cormick, William S.
M'Kenzie, Kenneth
M'Laren, Archibald
M'Laren, James P.
M'Lintock, Thomas B.
M'Millan, James
Mack, John
Marshall, William
Miller, Harry C.
Miller, Harry C.
Miller, James H.

Milroy, William L.
Morton, Alex. (N. Cath.)
Neil, John C.
Osler, Thomas S.
Park, Maitland H.
Paton, George G.
Picken, John
Prentice, Adam
Reid, William
Roxburgh, William
Roxburgh, William
Spark, William
Telfer, John
Thomas, John Owen
Thomson, Charles
Thomson, William
Waddell, David
Walker, James C.
Watt, Thomas
Young, William

Adam, James Adams, John E. Aikman, Charles M. Bannerman, Charles Barber, William Barclay, James Barr, James Binnie, William Black, William H. Blair, Charles P. Brewster, George Brown, Robert (Markinch) Brown, Robt. (Kilmarnock) Bruce, David Buchanan, Alexander Burns, Andrew Butler, Dugald Cairns, John A. Callan, Hugh F. Calvert, Arthur Cameron, James Campbell, Daniel Carmichael, James M. Clark, Alexr. T. Clark, James Crawford, Robert

Cunliff, Richard J. Davidson, Benjamin J. Denoon, Benjamin Dodds, James M. Donald, Thomas S. Eadie, William Fergus, John F. Ferguson, Archd. D. Ferguson, Matthew T. Fraser, James W. Frew, David Gilbert, John Gilchrist, Edward J. Glendinning, James Goldie, Andrew Henderson, Adam Houston, David Hughes, Lewis Jardine, David L. Kennedy, William W. Kilpatrick, William Knight, James Laing, William Love, John Meikle, James Morris, Robert

Morrison, Frederick L. Muirhead, Robt. F., B.Sc. M'Conville, John S. M'Gaw, Alexr. Mackay, Wm. M. M'Kechnie, Wm. S. Mackie, James MacPhie, Alexr. Nichol, John P. Paterson, Alexr. Pirret, Joseph B. Reid, David A. Robbie, James W. Robertson, John A. Roxburgh, Edward Russell, Alexr. Saunders, John M. Smith, John (Lochgoillad.) Stevenson, Hugh Stewart, Robert M. Strachan, James Struthers, Ronald B. Wallace, William Whyte, John Wilson, John M. Wilson, Matthew G.

# 2. In Mental Philosophy.

Adam, David S. Anderson, George Anderson, Robert C. Deans, David Dykes, Thos. Findlay, Arthur

Aitken, David Alexander, Wm. M. Allan, James Anderson, Alexander Andrew, Wm. S. Baird, John Begg, Robert Blair, John F. Brown, Duncan Browning, Donald M. Browning, Robert L. Bryce, Morrison Butchart, William Callan, John Cameron, Donald Campbell, A. (Campbelt'n) Campbell, A. (Glasgow) Carson, George Darwent, Charles E. Davidson, James G. Davis, John L. Dickie, David U. Dock, William Dodds, James M. Dubs, Fredk. E. Duncan, Hugh Dunlop, James Eadie, Andrew Fraser, Simon Gemmell, Andrew Gibson, George A. Gibson, John Gray, John Guy, Robt. C Harvey, James Hay, William

Gregory, Thomas Howe, William M'Lean, Hector MacOmish, Robert Miller, Jas. H. Osborne, Alexander

Henderson, John W. Henderson, Robert Hogarth, John P. Jamieson, Archd. Johnston, Henry W. Jolly, Isaac Laidlaw, David Lothian, Alex. V. Maltman, John Marshall, William Marwick, David W. Millar, Adam Millar, Andrew Mitchell, Alexr. M. Moyes, Wm. B. Muir, Wm. Macaulay, George M'Callum, James A. Maclay, James Macfarlane, Malcolm M'Glashan, Thomas M'Ilraith, John R. Macintyre, John Mackay, James L. M'Lachlan, William Maclean, Robert Macleod, James Macphail, George R. Macpherson, James M'Robert, James Macrobert, Thos. Mactaggart, Charles Nichol, Harvey Osler, Thomas S. Paterson, James Paterson, Robt. M.

Reyburn, Hugh Y. Robertson, William Rutherfurd, Henry Simpson, Jas. Swanson, Jas. Thomson, Samuel M.

Prentice, Adam Rae, James Rae, John R Reynolds, William Robertson, Andrew Rodger, Alex. Ross, Alexander Ross, Edward Roxburgh, William Samuel, George Slater, Peter F. Smart, William Smith, David Smith, James F. Stead, Francis H. Steele, Charles Stewart, Henry Stewart, John R. W. Struthers, John Stuart, Hamish H. Telfer, David Thomson, John E. Turnbull, Charles S. Turner, Thomas Veitch, Robert Waddell, David Walker, James C. Wallace, Robert W. Watson, David Watt, Thomas White, Matthew Wilson, Adam Wilson, George A. Wilson, John Wilson, William W.

# 3. IN MATHEMATICS AND NATURAL PHILOSOPHY.

Bonar, Thos. Young Carrick, Charles Cunningham, David Dick, James Duncan, Hugh Hedderwick, A. W. Henderson, John

Adam, James A.
Aitken, David
Aitken, Patrick H.
Alexander, Wm. M.
Allan, John
Anderson, George
Ashcroft, Francis
Black, James M.
Blair, John F.
Browning, Robt. L.
Butchart, William
Campbell, Archibald
Campbell, Donald
Clarke, Thomas E. S.
Dalziel, Geo. C.
Darwent, Charles E.

Gibson, John
Gray, John

Hislop, John Laird, Andrew L. Loudon, Alexander Loudon, Robert T. Macaulay, George M'Crone, Robert M'Gregor, George

Gray, William
Hay, William
Howell, Arthur S.
James, David
Johnston, Henry W.
Key, David R.
Lothian, Alexander V.
Maltman, John
Millar, James H.
Macaulay, John
M'Callum, John D.
M'Ellwee, George M.
M'Inraith, John R.
M'Innes, John
Mapphail, George R.
Nichol, Harvey
Paterson, James
Paton, William F.

M'Kinnon, Charles MacOmish, Robert Macrae, Roderick C. Marr, Donald M. Moore, Alexander G. Steele, Charles

Rae, John R.
Ramsay, Robert
Riddick, Samuel M.
Ross, Edward
Russell, John H. S.
Samuel, George
Scobie, Andrew
Simpson, Richard
Stark, George B.
Stead, Francis H.
Stewart, Henry
Struthers, John
Swan, Cecil J.
Swanson, James
Thomsom, John E.
Veitch, Robert
Wilson, Adam
Wilson, Adam

# III.—DEGREES IN LAW.

# I.—FOR DEGREE OF LL.B.

# 1. In Civil Law.

Cross, Thomas, M.A. Mackay, Herbert J. H., M.A. Roxburgh, James F., M.A.

Beckett, Charles E., M.A. Blyth, John G., M.A. Herkless, Wm. R., M.A. Newlands, Geo. F., M.A. Nimmo, Wm. C., M.A. Ritchie, G. Muir, M.A. Steele, Wm. C., M.A. Stewart, Thos. M., M.A. Younger, Robt. T., M.A.

Craig, Archibald, M.A. Macrae, James, M.A.

# 2. In Scots Law.

Allan, George F., M.A. Macindoe, Wm. L., M.A. Smith, Patrick, M.A. Hector, Wm. C., M.A. Stewart, Thos. M., M.A.
Guthrie, George, M.A.

Guthrie, George, M.A. Ross, Alexander Sutherland, John

# 3. In Conveyancing.

Brown, John Blair, M.A. Cross, Thomas, M.A. Hislop, Wm., M.A. Patrick, David Roxburgh, Henry A. Swanston, Wm., M.A. Allan, George F., M.A. Ritchie, George M.

Blyth, John G., M.A. Craig, Archibald, M.A. MacIndoe, William L., M.A. Ross, Alexander

### 4. IN PUBLIC LAW.

Allan, George F., M.A. Brown, John B., M.A. Mackay, Herbert J. H., M.A. Patrick, David Swanston, Wm., M.A.

Herkless, Wm. R., M.A.

Blyth, John G., M.A. Craig, Archibald, M.A. Cross, Thomas, M.A. Macrae, Innes, M.A. MacIndoe, William L., M.A.

### 5. IN CONSTITUTIONAL LAW AND HISTORY.

Hislop, Wm., M.A. MacIndoe, Wm. L., M.A. Robb, George H., M.A. Roxburgh, Henry A., M.A. Roxburgh, James F., M.A. Steele, Wm. C., M.A. Beckett, Charles E., M.A. Newlands, Geo. F., M.A. Nimmo, Wm. C., M.A. Younger, Robt. T., M.A.

Cross, Thomas, M.A. Guthrie, George, M.A.

# 6. IN MEDICAL JURISPRUDENCE (OR FOR B.L.)

Anderson, John Locke Dunbar, James Galbraith, John Sands Macfarlan, Eneas M. Mackintosh, James D. Robb, George H., M.A. Smith, John S. W. Steele, Wm. C., M.A. Thomson, Wm. Blyth, John G. Mackintosh, James D. Smith, Patrick, M.A.

Brown, William T. Cameron, James W. M'Lellan, George D., M.A. Sutherland, John Watson, James

# II. FOR DEGREE OF B.L.

# 1. In Latin.

Fraser, David B. Hislop, Robert Jubb, John Kirkland, James Lochhead, James Ormond, Hugh H.

Aitken, Robert Aiton, Wm.

Jubb, Jas. H.

Lyle, John

Clapperton, Alan Graham, Thomas Tod, George
Wight, Wm. T.
Young, George B.

Aiton, William

Clark, Dugald M. Gibson, Henry F. Grant, James Love, John Macfarlane, John M.

# 2. In Greek.

Love, John

# 3. In Logic.

Moffat, Alex. Patrick, David Robertson, John M. Service, John

Cuthbert, James A.

Fraser, David B. Millar, John Macdonald, James Ormond, Hugh H. Wight, William T.

# 4. IN MORAL PHILOSOPHY.

Aitken, Robert Aiton, William Dykes, Thomas MacLachlan, Dugald

Black, William P. M. Brock, John Chas. Brown, George J. Campbell, Clement M. Ferguson, George Graham, Thomas Grant, James Jubb, James H. Jubb, John Lindsay, John M'Laren, James Robertson, John M. Smith, John S. W. Smith, Thornton G. Stewart, Andrew

# 5. IN ENGLISH LITERATURE.

Aiton, William Graham, Thomas Lyle, John Robertson, William Brown, George J. Clapperton, Alan E. Hunter, George Marwick, James Patrick, David Robertson, John M. Tod, George Young, George B.

# 6. In Mathematics.

Parker, James H.

# 7. In French.

Galbraith, John Sands Hislop, Robert Johnston, William Patrick, David

Paterson, John S. Ritchie, George M.

# 8. In CIVIL LAW.

Maclachlan, John B. Ritchie, George Mure Kidston, William Mackechnie, John M.

Lawrence, Martin B.

# 9. In Scots Law.

Aitken, Robert Aiton, William Carrick, Jas. S. Mackechnie, John M. Maclachlan, Dugald Mair, John Smith, John S. W.

Galbraith, John S.
Johnstone, William
Thomson, William
Wyllie, Archd. D.

Kidston, William Mackintosh, James D. Brown, Walter R.
Brown, William T.

M'Lellan, George D., M.A. Neilson, Robert T. Watson, James

# 10. In Conveyancing.

Aiton, William Barr, Patrick Dunbar, James Lochhead, James Mair, John Maclachlan, Dugald Maclachlan, John B. Mackechnie, J. M. Paterson, John S. Stewart, John W. Stewart, James Smith, W.

Craig, Archibald Drever, William Hoggan, John Lowndes, Henry F. Smith, John S. W.

Cameron, James W. Galbraith, John S. Lawrence, Martin B. Thomson, William Wyllie, Archibald D.

# 11. IN CONSTITUTIONAL LAW AND HISTORY.

Aitken, Robert Johnstone, William Maclachlan, Dugald

Brown, Alex. Rankine Neilson, Robert T. Somerville, Graham L. Wylie, Archibald D.

# 12. In Political Economy.

Brown, Alexander R. Brown, Walter R.

Maclachlan, Dugald Smith, Thornton G. Somerville, Graham L. Thomson, William

# IV.—FOR THE DEGREE OF B.Sc.

# 1. In Latin.

Gordon, Robt. P. R. Dunlop, Alexander W. Dunlop, Douglas Jenkins, Thomas M'Kean, Alexander

Aikman, Charles M. Barber, William Binnie, William Henderson, Adam Hunter, Ramsay Kelly, Hugh Saunders, John M.

#### 2. In Greek.

Gordon, Robert P. R. Dunlop, Alexander W. Dunlop, Douglas Jenkins, Thomas

M'Kean, Alexander Aikman, Charles M. Barber, William Binnie, William Henderson, Adam Kelly, Hugh Saunders, John M.

# Rutherfurd, Henry

Aitken, David Alexander, William M. Campbell, Archibald Evanson, Morgan Fraser, Simon

### 3. In Logic.

Frew, Alexander Hay, Wm. Henderson, Geo. G. Kelly, Hugh Lothian, Alex. V. Loudon, Alexander Mahomed, Tamiz U.

Mirrlees, Wm. J. Macfarlane, Malcolm Ramage, Granville H. Slater, Peter F. Thomson, John E. Turner, Thomas Wilson, John

### 4. In Moral Philosophy.

Rutherfurd, Henry

Aitken, David Alexander, William M. Campbell, Archibald Fraser, Simon

Hay, William Lothian Alex. V. Loudon, Alexander Mahomed, Tamiz U. Moore, Ralph D.

Macfarlane, Malcolm Slater, Peter F. Thomson, John E. Turner, Thomas Wilson, John

#### 5. In English Literature.

Murdoch, Peter M. W. Rutherfurd, Henry

Aitken, David Alexander, William M. Campbell, Archibald Evanson, Morgan Fraser, Simon

Frew, Alexander Hay, William Lothian, Alex. V. Loudon, Alexander Mahomed, Tamiz U. Marwick, James Miller, Wm. M. Mitchell, Robert Moffat. Peter Murdoch, Robert H. Macfarlane, Malcolm Ness, Wm. F. Ramage, Granville H. Thomson John E. Turner, Thomas

# 6. IN MATHEMATICS.

(E.D.) Carson, Alex. Cleland, John (E.D.) Dick, James (G.D.) Loudon, Alex. Mahomed, Tamiz U

Simpson, Robt. (E.D.)

Aitken, David Aitken, Patk. H. (B.D.) (G.D.) Alexander, Wm. M. (G.D.) Brocklehurst, G. H. (B.D.) Clarke, Thos. E.S. (G.D.) Evanson, Morgan (G.D.) (G.D.) Hay, William

Lothian, Alex. V. Mirrlees, Wm. J. (G.D.) (E.D.) M'Elwee, Geo. M. M'Queen, Alex. (G.D.) (E.D.) (E.D.) Nicholson, John Thomson, John E. (G.D.) Weir, William (E.D.)

# 7. IN NATURAL PHILOSOPHY.

Cleland, John (E.D.) Dick, James (E.D.) Elliot, Archd. C. Loudon, Alexr. (G.D.)

(B.D.) (E.D.) Rutherfurd, Henry Simpson, Robert Weir, Thomas D. (E.D.)

Aitken, David (B.D.) Aitken, Patrick H. (G.D.) Alexander, Wm. M. (G.D.) Brocklehurst, G. H. (B.D.) Campbell, Archd. (B.D.) Clarke, Thos. E. S. (G.D.) Hay, Wm. (G.D.) Lothian, Alex. V. (G.D.) M'Elwee, Geo. M. (G.D.) M'Queen, Alex. (E.D.) Thomson, John E. (G.D.) Weir, Wm. (E.D.)

# 8. In Geology.

Henderson, George G. Moffat, Peter Rattray, David C. Simpson, Robert

Wyper, William

Brown, John Carson, Alexander Clelland, John Davies, John E. Murdoch, Peter M. W. M'Ewen, Henry C.

#### IN ZOOLOGY. 9.

Fullarton, John H. M'Ewen, Henry C.

Donaldson, Peter

### 10. In Geodesy.

Clelland, John

Carson, Alexander Mitchell. Robert

Adamson, John Donaldson, Peter Henderson, George M'Cowan, John Moffat, Peter Murdoch, Robert H. M'Kechnie, Neil M'Queen, Alexander Paterson, Peter Wyper, William

# 11. In Chemistry.

Mitchell, Robert Moffat, Peter Rattray, David C. Wilson, James, M.A.

Bowser, Charles H. Brown, John Davies, John E

#### 12. In Anatomy.

Geddes, Robert J.

### 13. In Physiology.

Donaldson, Peter Thomson, Robert

Geddes, Robert J.

# 14. IN CIVIL ENGINEERING AND MECHANICS.

Cleland, John

Mirrlees, William J.

Turner, John H. T.

### 15. IN OFFICE AND FIELD WORK IN ENGINEERING.

Bowser, Charles H. Bruce, Robert R. Cleland, John Murdoch, Robert H. M'Ara, John A. M'Kechnie, Neil Rattray, David C. Turner, John H. T.

### UNIVERSITY PRIZES.

# I. For Essays :--

1. In Theology, the CLELAND GOLD MEDAL, for the Best-Essay on "The Theology of Anselm."

John Herkless, Glasgow

2. In Mental Philosophy, the UNIVERSITY SILVER MEDAL, for the Best Essay on "Utilitarianism."
William Granger, Glasgow

3. The EWING GOLD MEDAL for the Best Essay on "The Historical Relations of Great Britain and Ireland from 1760 to 1801." John G. A. Dow, Padanaram, Forfarshire

4. A COULTER PRIZE OF FIVE POUNDS for the Best-Sermon on 1 Cor. xv. 22.

Charles Steele, Ochiltree, and John G. A. Dow-Equal

5. A COULTER PRIZE OF TWO POUNDS TEN SHILLINGS for the Best Latin Essay on "The Revival of Letters in Italy." Patrick Hynds Hutchinson, Bangor, Belfast

6. The HENDERSON PRIZE OF TWENTY GUINEAS for the Best Essay on "The mode of Sabbath observance among the Jews from the Babylonish captivity to the time of our Lord."

George Anderson, Glasgow

7. The RECTOR'S PRIZE OF FIFTY POUNDS for the Best Essay on "The Moral and Social State of the Christian Community before and after Constantine the Great, in connection with his conversion, and his public measures consequent thereon."

George Saunders, Dundee

#### II. Examination :-

1. An ARNOTT PRIZE OF ABOUT FIFTEEN POUNDS for Examination in General Physics, open to Students of the first and second years of their medical studies.

Duncan Macartney, M.A., Kirkintilloch Henry Rutherfurd, Glasgow

2. An ARNOTT PRIZE OF TWENTY-FIVE POUNDS for Examination in Physiological Physics; or the application of the Doctrine of General Physics to Physiological Science, open to Students of the third and fourth years of their medical studies.

Robert Beith, Largs, Ayrshire
James Wm. Grange, Hillhead, Glasgow Equal

3. The BRUNTON MEMORIAL PRIZE OF ABOUT TEN POUNDS to the most distinguished graduate in Medicine of the year.

John Lindsay Steven, Glasgow (July, 1880)

- 4. The LUKE HISTORICAL PRIZE, for excelling at a competitive examination in Ancient Greek and Roman History. Gavin Lambie, Howood, Paisley.
- 5. The MACFARLAN AND COOK TESTIMONIAL PRIZE OF TWENTY GUINEAS, open to Theological Students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

John Downie, M.A., Partick, Glasgow

# CLASS PRIZES.

# Haculty of Theology.

# DIVINITY.

SENIOR DIVISION.

- I. For General Eminence.
  - 1. John Herkless, Glasgow
  - 2. John D. Douglas, Glasgow
  - 3. Donald Macmillan, M.A., Innellan
  - 4. Peter Donaldson, M.A., Muthill, Perthshire

  - 5. William Kean, M.A., Rothesay6. Andrew Rutherfurd, M.A. Glasgow

#### II. For Written Examinations.

1. John Herkless

2. John D. Douglas

3. James Young, M.A., Lesmahagow

4. Donald Macmillan, M.A.

- 5. William Kean, M.A.
- 6. George Caldwell, Kirkintilloch

### Dowanhill Prizes of £21 and £10 10s, for Elecution.

1. Matthew Gardner, Greenock

2. James M. Campbell, Eastwood, Renfrewshire

#### JUNIOR DIVISION.

### I. For General Eminence.

1. James Chalmers, Glasgow

- William G. Duncan, M.A., Cortachy, Forfarshire
   Archibald R. S. Kennedy, M.A., Aberdeen 4. John Alexander Clark, M.A., Glasgow

# II. For Written Examinations.

1. William G. Duncan, M.A.

2. Archibald R. S. Kennedy, M.A.

3. James MacFadzean, M.A., Kirkoswald

Walter P. Brock, M.A., Glasgow John Barr Cumming, M.A., Glasgow

# DIVINITY AND BIBLICAL CRITICISM.

# I. For General Eminence.

#### SENIOR DIVISION.

1. John Herkless, Glasgow

2. Donald Macmillan, M.A., Innellan

3. John Downie, M.A., Glasgow

#### JUNIOR DIVISION.

1. John D. Douglas, Glasgow

2. George Dods, M.A., Garvald, Haddingtonshire

3. Andrew Rutherfurd, M.A., Glasgow 4. Alexander C. Watson, M.A., Glasgow

# II. For Essays and Written Examinations.

1. John Herkless

2. Donald Macmillan, M.A.

3. John D. Douglas

#### ECCLESIASTICAL HISTORY.

I. General Eminence, voted by the Class—

#### SENIOR DIVISION.

- 1. John D. Douglas, Glasgow,
- 2. John Herkless, Glasgow.
- 3. Donald Macmillan, M.A., Innellan.
- 4. William Stevenson, M.A., Carlisle.

#### JUNIOR DIVISION.

- 1. A. R. S. Kennedy, M.A., Aberdeen.
- 2. John Love, Glasgow.
- 3. Richard Simpson, Glasgow.
- David G. Manuel, M.A., Whitburn.
  James MacFadzean, M.A., Kirkoswald.

#### II. Essays and Examination Papers-

SENIOR DIVISION.

John Herkless.

JUNIOR DIVISION.

James Chalmers, Glasgow.

- III. Vacation Readings, etc.—
- Examination on Writings of the Apostolic Fathers-John D. Douglas.

Examination on the History of the Church of Scotland-John B. Cumming, M.A., Glasgow.

# ORIENTAL LANGUAGES.

#### I. SENIOR HEBREW CLASS.

Prizes determined by Written Work and by the Votes of the Class.

- 1. Peter Donaldson, M.A., Muthill
- 2. James Young, M.A., Glasgow
- 3. Robert B. Dickson, Glasgow
- 4. James Lindsay, M.A., B.Sc., Kilmarnock

#### II. JUNIOR HEBREW CLASS.

Prizes determined by Written Work and by the Votes of the Class.

- 1. John Taylor, Glasgow
- 2. Alex. Murray M'Gregor, Hillhead
- 3. Wm. G. Duncan, M.A., Cortachy
- 4. Arch. R. S. Kennedy, M.A., Aberdeen
- 5. George Anderson, Glasgow
- 6. John B. Cumming, M.A., Hillhead

#### III. SUMMER READINGS.

1. Senior Division-Alex. C. Watson, M.A., Glasgow Worthy of special mention-James E. Houston, M.A.

- 2. Junior Division-Peter Donaldson, M.A., Muthill Worthy of special mention-James Young, M.A.
- 3. Composition in Hebrew Prose—Peter Donaldson, M.A.

IV. ESSAYS ON OLD TESTAMENT INTRODUCTION.

- 1. Senior Division—James Lindsay, M.A., B.Sc.
- 2. Junior Division—George Anderson

BLACK THEOLOGICAL FELLOWSHIP.

Prizes for Written Examination on Lectures by the Rev. Colin Campbell, B.D.

1. Andrew Rutherford, M.A., Glasgow

2. Richard Simpson, M.A., Glasgow Equal George Dods, M.A., Garvald

# Haculty of Daw.

# SCOTCH LAW.

#### HONOUR LIST.

# I. For Eminence in the Class Examinations-

First Class Honours. 1. \*Robert T. Younger, M.A. 2. \*Archibald Craig, M.A. \*Alexr. D. Lindsay \*G. F. Newlands, M.A. Equal 5. \*Robert Warner \*Walter R. Brown \ Equal \*Hugh Macleod 8. Jas. Simpson, M.A. Hugh Barnett Equal John Morton John C. Thomson 12. Archibald H. Donald

Second Class Honours.

- 13. Charles Byrne
- John M. Sclater | Equal | 15. James H. Wilson | Equal | Robert T. Neilson |
- 17. Richard Ashcroft William J. Begg John G. Stevenson Charles P. Leiper
- 21. William Craig Charles Ker, M.A.
- 23. Cecil J. Swan Don. M'C. Marr, M.A. James Crawford Archibald Brownlie Equal Hugh R. Houston John A. Brown William T. Kelly William M. Laidlaw

The Asterisk denotes the Prizemen.

II. The Prizes given by the Faculty of Procurators in Glasgow for Eminence in a special written Examination on the subjects of the course were awarded to-

Robert T. Younger, M.A.

2. Robert Warner. 3. Walter R. Brown

The following Students distinguished themselves in this Examination, viz.:-(1) John C. Thomson and George F. Newlands, M.A., Equal; (2) Alexander D. Lindsay and John Morton, Equal; (3) Hugh Barnett.

#### CONVEYANCING.

- I. For Eminence in the Ordinary Class Examinations during the Session—
- 1. \*Robert Wilson.
- 2. \*W. L. Macindoe, M.A.
- 3. \*A. M. Bannatyne
- 4. \*Samuel M. Carrick | Equal \*George Neilson
- 5. Thomas Biggart Dugald D. Dickie Equal
- 6. James Caldwell, jr. Equal
- 7. William Johnstone

- 8. Martin B. Lawrence
- 9. Robert Aitken John Pollok Equal
- 10. Alexander Bell Frederick Davison George Thomson
- 11. Thomas Bennie
  George J. Cameron
  Jas. W. Purvis
  T. M. Stewart, M.A.

The \* designates the Prizemen.

- II. The Prizes given by the Faculty of Procurators in Glasgow for Eminence in a Written Examination in the department of Feudal Conveyancing were awarded as follows, viz.—
- 1. Robert Wilson
- 2. A. M. Bannatyne
- 3. W. L. Macindoe, M.A.
- 4. George Neilson
- 5. Dugald D. Dickie

The following Students distinguished themselves in this Examination:

- Thomas Bennie Samuel M. Carrick Equal
   Charles W. Smith Equal
- 2. Charles W. Smith (Archd. D. Wyllie 3. Thomas Biggart )
- 3. Thomas Biggart
  W. D. Firth
  William Thomson
  Thomas Watt
- 4. Robert Duncan William Johnstone Equal
- 5. Frederick Davison
  M. B. Lawrence
  George Thomson

# PUBLIC LAW.

#### FIRST CLASS HONOURS AND PRIZES,

- 1. Henry A. Roxburgh, M.A.
- 2. James Macrae, M.A.
- 3. James Fleming, M.A.

#### SECOND CLASS HONOURS.

- 4. Thomas M. Stewart, M.A.
- 5. Thomas Cross, LL.B. Equal
- 6. William P. Drever 7. William C. Steele, M.A.
- 8. Hugh Duncan, M.A.

# CONSTITUTIONAL LAW AND HISTORY.

#### SUMMER SESSION-1880.

#### HONOUR LIST.

1. \* Henry A. Roxburgh, M.A. \* Robert T. Younger, M.A. \* Robert Aitken \* James F. Roxburgh, M.A.

5. George F. Newlands, M.A. 6. Robert T. Neilson

\* The asterisks denote the Prizemen.

# Haculty of Medicine.

# MEDALS AND CERTIFICATES OF MERIT.

# FORENSIC MEDICINE.

SUMMER SESSION-1880.

MEDALLIST.

John M. Young, M.A.

FIRST CLASS CERTIFICATES OF MERIT (alphabetically arranged).

Robert Beith David Blyth Fergus Carswell Thomas Davidson William Fraser David Grant James R. Kaye Murdoch Mackenzie William A. Macleod J. C. Wilson

# SECOND CLASS CERTIFICATES OF MERIT (alphabetically arranged).

Dugald Campbell John Carruthers Robert Crawford William Dougall Thomas Dunlop James Gardner

J. W. Grange Alexr. J. Hood D. W. Inglis, M.A. Robert Kirkland David S. Kyle

David Lawrie J. N. Marshall William Russell William Waddell Wm. M'K. Wilson

# MIDWIFERY.

FIRST CLASS (in order of merit).

Peter C. Smith, M.A.—Medal. Anstruther Davidson. James Ferguson John M. Young, M.A. Angus S. Gunn

James C. Robertson John Irving Norman M. MacLehose William Morrison, M.A.

#### SECOND CLASS (arranged alphabetically).

George Anderson Alexander F. Beck Roland Blaney George Dickson J. Walker Downie David Durran Charles P. Gallie James Gardner
James W. Grange
Robert Hannington
Edgar Haydon
Charles Jamieson
Matthew Killoch
David Lawrie

Dugald M'Phee Alexander Meighan Richard More Richard Prichard Alexander F. Reid John M. Robertson William B. Violette

### MATERIA MEDICA AND THERAPEUTICS.

#### WINTER SESSION-1880-81.

# FIRST CLASS CERTIFICATES (in order of merit).

J. M. Young, M.A.—Medal John Fotheringham Robert Beith John Macintyre J. N. Marshall Angus S. Gunn David Lawrie Wm. Pattullo Andw. M. Ramsay R. S. Stewart John Brown John MacMillan W. Macknight Wilson W. B. Violette Wm. Morrison, M.A.

# SECOND CLASS CERTIFICATES (in order of merit).

R. J. Geddes
John Goff
Duncan Love
J. P. Simpson
Wm. A. Soga
R. S. Thomson
John Carruthers
Jas. Ferguson
Jas. Hamilton
A. J. Hood
Charles Jamieson
Henry Mason
Wm. Gibb

W. Aitken
F. H. Colvin
Wm. Dougal
David Gardner
Jas. Gardner
Alexr. Lowe
A. Lees Bell
Peter MacLean
Jas. Maxwell
A. F. Reid
D. J. Mackintosh
Jas. Oastler

# MATERIA MEDICA AND PRACTICAL PHARMACY.

# SUMMER SESSION-1880.

# FIRST CLASS CERTIFICATES (in order of merit).

E. Haydon W. Aitken J. N. Marshall Jas. Mason Jas. S. Muir A. J. Hood R. J. Geddes Jas. S. Rennie

#### SECOND CLASS CERTIFICATES.

Robert Horn Alexr. Lowe John Buchanan John Dunlop Jas. Hamilton J. P. Simpson Francis Johnston Dugald M'Phee R. B. Young Donald J. Mackintosh John Macintyre D. Orr Wm. Dunlop

### PRACTICE OF MEDICINE.

THE CULLEN MEDAL.

Robert Beith, Largs, Ayrshire
John M. Young, M.A., Dunfermline
(James Ferguson, Blairgowrie, proxime accessit.)

FIRST CLASS CERTIFICATES (in order of merit).

James Ferguson, Blairgowrie
Robert S. Thomson, Southampton
Wm. Morrison, M.A., Elgin
J. Macpherson Lawrie, Glasgow

Equal

SECOND CLASS CERTIFICATES (in alphabetical order).

Benjamin Blaine, King William's Town, S. Africa
Norman M'L. Clerk, Kilmallie,
Argyllshire
William Dougal, Strathaven
J. Walker Downie, Glasgow
David Durran, Thurso
A. Freeland Fergus, Glasgow
James Gardner, Greenock
Robert J. Geddes, Port-Glasgow
Js. W. Grange, Liscard, Cheshire

Edgar Haydon, Bovey Tracey John M. Hunt, Perth John Macintyre, Glasgow John Yule Mackay, Inverkeith'g. John N. Marshall, Pollokshields Wm. Pattullo, Barton, Kirkcudbright Andrew M. Ramsay, Glasgow Peter C. Smith, M. A., Uddingston

Robt. S. Stewart, Dalmellington

# CLINICAL MEDICINE.

### SUMMER SESSION 1880.

SENIOR DIVISION.

HIGHEST DISTINCTION.

John C. Wilson.

FIRST CLASS CERTIFICATES (in order of merit).

1. Matthew Killoch John M. Hunt

2. James Erskine

3. George Haddow Alex. Meighan

#### JUNIOR DIVISION.

# HIGHEST DISTINCTION.

James K. Norman.

John F. M'Phun J. W. Grange

FIRST CLASS CERTIFICATES (in order of merit). 2. Charles Jamieson 3. Andrew Semple

> WINTER SESSION 1880-81. SENIOR DIVISION.

HIGHEST DISTINCTION. Anstruther Davidson.

FIRST CLASS CERTIFICATES (in order of merit).

1. Peter Caldwell Smith, M.A. 2. John S. Wright

3. Wm. Morrison, M.A.

4. John Irving

Robert Hannington William M. Williams Commended. John Brown

JUNIOR DIVISION.

HIGHEST DISTINCTION.

Duncan Love.

FIRST CLASS CERTIFICATES (in order of merit). 1. John N. Marshall

2. William Dougal 3. Joseph M. Carroll 4. Alexander Galbraith 5. William Gibb

Commended.

John Macintvre Norman M. MacLehose John Fotheringham

Alexander J. Hood John MacH. Gell Robert Crauford

# SURGERY.

SENIOR.

MEDAL-Frank Gemmel and William Pattullo-Equal.

FIRST CLASS CERTIFICATES (in order of merit).

Stewart, Charles W., M.A.
 Lawrie, Macpherson

3. Morton, A. Y.

4. Grange, J. W. 5. Wright, John S. 6. Dickson, George 7. Downie, J. W.

8. Buchanan, John 9. Durran, David

SECOND CLASS. CERTIFICATES (alphabetically).

Dickson, Thomas A. Dunlop, Thomas Gardner, David Jamieson, Charles Johnston, John

Keay, John Laurie, David M'Call, John Williams, W. M.

#### JUNIOR.

# MEDAL-R. Bruce Young, M.A.

FIRST CLASS CERTIFICATES (in order of merit).

- 1 Forsyth, William A., M.A.
- M'Lean, Archibald
   Duff, James K., M.A.
- 4. Stewart, Robert S. 5. Lawson, James B.
- 6. Sharman, Mark

- 7. Mason, Henry
- 8. Stafford, William
  9. Morrison, Alexander
  10. Howie, Alexander
- 11. Young, John

SECOND CLASS CERTIFICATES (alphabetically).

Colvin, Francis H., M.A. Cumming, J. B. Gay, Herbert M. Gemmel, Archibald Gibb, William F. Gray, W. L. Herbertson, J. C., M.A. Hunter, R. R. Kerr, John Stewart, Andrew Strain, William L. Torrance, David W.

# CLINICAL SURGERY.

### SUMMER SESSION—1880. HIGHEST DISTINCTION.

SENIOR.
Robert Beith

JUNIOR. Robert S. Stewart

4. Robert B. Young, M.A.

5. Robert Davidson

# FIRST CLASS CERTIFICATES (in order of merit). SENIOR.

- 1. Duncan Love
- 2. John P. Simpson
- 3. William Patullo 4. Dugald Campbell

- 5. Norman M'L. Clerk
- 6. William Dougall 7. John M'Intyre
- 8. James S. Rennie

### JUNIOR.

- 1. Andrew Lees Bell
- 2. John MacMillan3. David Cross
  - - ADVANCED STUDENTS.

# Charles S. Stewart WINTER SESSION—1880-81.

# HIGHEST DISTINCTION. John Innes Dunlop

# FIRST CLASS CERTIFICATES (in order of merit).

- 1. Andrew Stewart
- 4. William L. Strain 5. Francis Prosser
- 2. John Kerr 3. Thomas G. Alexander
- 6. Robert R. Hunter

#### ADVANCED STUDENTS.

David Lawrie

John M. Hunt

# INSTITUTES OF MEDICINE. WINTER SESSION—1880-81.

JOHN HUNTER MEDAL AND FIRST CLASS CERTIFICATE.
William F. Quaife, Sydney, 93 per cent.

, , ,	•
FIRST CLASS CERTIFICATE	S.
James Headrick, Linlithgowshire,	90 per cent.
James Headrick, Linlithgowshire, W. A. Forsyth, Sorbie, Wigtonshire, W. F. Gibb, Paisley,	88
W. F. Gibb, Paisley,	88
A Johnstone Barrhead	95
W. F. Gibb, Paisley, A. Johnstone, Barrhead, John Kerr, Beith,	94
	21
Archibald M'Lean, Largs,	82
Duncan Macartney, Girvan,	- ,,
	82 ,,
	82 ,,
David Finlay, Ardrishaig,	81 ,,
SECOND CLASS CERTIFICAT	ES.
John Clerk, Inveraray, William L. Strain, Wishaw,	75 per cont.
Thomas Howard Classon	74
Thomas Howard, Glasgow, Robert E. Beveridge, Dunfermline,	70 ,,
Robert E. Beverlage, Duniermine, -	72 ,,
Andrew Stewart, Glasgow,	12
James J. Campbell, Lauriston,	71 ,,
James C. Herbertson, M.A., Glasgow,	
John T. Prangnell, Islay,	71 ,,
William Brown, Port-William, -	70 ,,
John Burns, Glasgow,	69 ,,
Duncan Marquis, Oban	68 ,,
John Burns, Glasgow, Duncan Marquis, Oban, Tamiz Uddin Mohamed, India, -	
Peter Hodge, Glasgow,	66
	RR "
Robert Gourlay, Kirkintilloch,	65
D. T. Torrance, Airdrie,	65
William Vost. Kelso.	2.4
	62 ,,
	62 ,,
William Stafford, Nottingham,	62 ,,
Mark Sharman, Wellingborough, -	61 ,,
John Young, Glasgow,	61 ,,
J. H. Bryce, Stirling,	61 ,,
H M Cay Finden	60 ,,
	60 ,,
James Findlay, Penpont	60
A. Morrison, Kilmarnock,	60 ′′
R. Routledge, Port-William, -	60
it. itoutieuge, i ort- william, -	,,

FIRST CLASS CERTIFICATE FOR AVERAGE IN 3 EXAMINATIONS.

James Wilson, M.A., Glasgow, 88 per cent.

CLASS ASSISTANT.
James William Grange, Cheshire.

# PRACTICAL PHYSIOLOGY.

#### SUMMER SESSION-1880.

JOHN HUNTER MEDAL AND FIRST CLASS CERTIFICATE.

Carswell, Fergus, 95.5 per cent.

	FIRST CLASS	CERTIFICATES.
Aitken, Wm.,	85.5 per cent.	Macmillan, John, 76.5 per cent
Beith, Robert,	94.0 ,,	MacNaughton, J. B. 79.5 ,,
Bell, Andw. Lees,	76.5 ,,	Marshall, John N., 83.0
Blaine, Benjamin,	75.0 ,,	Mason, Henry, 80.5 ,,
Campbell, Dugald,	80.5	Muir, James S., 76.0 ,,
Carroll, Joseph,	79.0 ,,	Oastler, James, 82.0 ,,
Dougal, Wm.,	93.0 ,,	Patullo, William, 79.5 ,,
Geddes, Robert J.,		Rennie, James S., 87.0 ,,
Gell, John M'H.,	84.0 ,,	Stewart, Andrew, 86.0 ,,
Gibb, William,	86.5	Stewart, Robt. S., 82.5 ,,
Hood, Alex. J.,	82.0 ,,	Thomson, Robt. S., 91.5 ,,
Love, Duncan,	86.0 ,,	Young, R. B., M.A. 78:0 ,,
Macintyre, John,	80.5 ,,	8, , , , , , , , , , , , , , , , , , ,
• , ,	,,	

SECOND CLASS CERTIFICATES.

Alexander, Samuel, 52.5 per cent.	Hutchinson, C.,	71.0	per cent
Alexander, Thos. G., 70.5 ,,	Johnston, Francis,	63.5	- ,,
Auld, Archibald, 57.0 ,,	Jones, David,	62.0	,,
Colvin, Francis H., 71 5 ,,	Little, William,	73.5	,,
Cullen, William, 62.0 ,,	Lowe, Alexander,	68.0	,,
Davidson, Robert, 71.0 ,,	Mackintosh, D. J.,	65.0	,,
Dinwoodie, David, 60.0 ,,	Maclean, Peter,	65.0	,,
Dunlop, Thos. C. C., 69.0	Pretsell, Wm. G.,	60.5	,,
Dunlop, William, 68.0	Ramsey, Andw. M.,		,,
Fulton, Geo. C. H., 63.5 ,,	Robb, Rich. A. D.,		,,
Galbraith, Alex., 74.0 ,,	Sandel, Anundo Lal		,,
Gemmell, Arch. B., 69.0	Simpson, John P.,	70.0	,,
Hamilton, James, 63.5	Sinclair, Dugald,	68.0	,,
Horn, Robert, 68.5	Taylor, Wm. C.,	69.0	,,
Hunter, Robert R., 73.0	Todd, George B.,	61.5	.,, .,,

Prizes for sets of 24 Histological Preparations.

1. John Macintyre | 2. John Macmillan

Class Assistants during Summer Session.

Norman Macleod Clerk; A. Freeland Fergus; David Gardner; James W. Grange; Edgar Haydon; G. G. Kenny; Jas. Maxwell; John F. Macgregor; J. Macgregor-Robertson, M.A.

# ANATOMY.

WINTER, 1880-81.

SENIOR DIVISION.
Written Examinations.

Medals—William A. Forsyth; J. Innes Dunlop. CERTIFICATES OF MERIT (in order of excellence).

First Class.

John Kerr J. F. Gemmel J. K. Duff Alexander Johnston

#### Second Class.

Archd. M'Lean W. F. Quaife W. F. Gibb Andrew Stewart	Equal	Angus Gunn James Headrick Mark Sharman David Finlay
		David Filliay
Alfred Williams		W. L. Strain Equal
J. B. Lawson		John Young (Equal
John Clerk		J. Prangnell
Robert Gourlay	Equal	Th. Howard
Francis Prosser		

# Practical Anatomy.

# CERTIFICATES OF MERIT (in alphabetic order).

	First Class.	
John Clerk	Th. Howard	J. B. Lawson
David Finlay	John Kerr	Andrew Stewart
J. F. Gemmel		
	Second Class.	
J. H. Bryce	Alex. Johnston	J. S. Prangnell
J. K. Duff	B. W. M'Arthur	Francis Prosser
J. P. Fotheringham	Duncan Macartney	James Ralley
Alex. Frew	Archd. M'Lean	Mark Sharman
W. F. Gibb	J. B. M'Naughton	Alfred Williams
James Headrick	Duncan Marquis	John Young (sec.)
J. C. Herbertson, M.A.	_	

Duncan Love

# PROSECTORS.

John Yule Mackay

# JUNIOR DIVISION.

Written Examinations.

Medals-Charles C. Hawthorne; James Hinshelwood, M.A.

CERTIFICATES OF MERIT (in order of excellence).

#### Second Class.

William M'Creadie		William Downie	
Henry Rutherford		John Hogg	
Alex. M'Rae	Equal	John M'Lullich	
William Paterson	Liqual	James Crawford	
Trafford Mitchell	Equal	Henry C. M'Ewen	
Andrew Wilson	Equal	R. Gibson Miller	Equal
Robert Livingstone	Ì	Andrew Murdoch	_
Thomas M'Culloch	Equal	W. T. Blakely	
Arch. N. Montgomery	Equal	B. S. Cowen	
John Ritchie	)	J. O. Reddie	Equal
John Beveridge	Fauel	I. P. Smith	_
Andrew B. Fulton	Equal -		

# Practical Anatomy. CERFIFICATES OF MERIT (in alphabetic order).

### First Class.

D. W. Bennie B. S. Cowen J. D. Farquharson Robt. Fullerton	A. B. Fulton Michael Greener Ch. O. Hawthorne J. W. A. Murdoch	Wm. M'Creadie John M'Myn H. Rutherford Robt. Scott
Robt. Fullerton	J. W. A. Murdoch	Robt. Scott

## Second Class.

S. P. Alexander David Berry Robt. Cook Ch. Court James Crawford William Downie Joseph Horne Hugh Kelly	A. N. Montgomery Th. M'Culloch Henry M'Ewen Al. M'Kean E. M'Kenzie Ch. M'Kinnon Alex. M'Rae John Paterson	James Parkes John Ritchie W.F.Somerville, M.A. Walter Spence J. P. Smith Joseph Scanlan C. D. Temple James Wilson, M.A.
--	---	---

### PROSECTORS.

William A. Forsyth | J. Innes Dunlop

## SUMMER SESSION-1880.

### Embryology.

FIRST CLASS (in or	rder of excellence).
William Forsyth—Prize	Mark Sharman
William Gibb	T. C. C. Dunlop
W. F. Quaife	Duncan Marquis

SECOND CLASS (in	alphabetic order).
T. J. Alexander	A. Galbraith
H. C. Bradley	James Headrick
Joseph Carroll	J. C. Herbertson, M.A.
David Cross	Alexr. Johnston
J. B. Cumming	Andrew Stewart
Alexr. Frew	

## Surgical Anatomy,

## FIRST CLASS (in order of excellence).

W. A. Forsyth	Andrew Stewart
J. Innes Dunlop	Mark Sharman
John Kerr	Alexr. Galbraith Equal
John Kerr D. W. Torrance Equal	W. Gibb (Equal
Archd. M'Lean	W. F. Gibb

## NATURAL HISTORY.

## ZOOLOGY.

	FIRST (	CLASS	CERTI	FICATE	CS.
MacLellan,	Lewis,		•••	82 per	cent Medal
M'Culloch,	Henry	D.	•••		80 per cent.

#### SECOND CLASS CERTIFICATES.

Seright, William	•••		•••		er cent.
Greener, Michael H		•••		72	,,
Bennie, David W.		•••		65	,,
Scanlan, Joseph				65	,,
Shaw, James				65	,,
Wilson, Andrew				65	,,
Young, R. R				65	**
Hawthorne, Chas. O.	(Two	Exami	nation	s), 85	

For Laboratory Work in Summer, 1880— Henry D. M'Culloch

## GEOLOGY.

MEDAL.
John Cleland

FIRST CLASS.

John Cleland, ... ... 83 per cent.

SECOND CLASS.

A. W. B. Anderson, ... ... 78 per cent. Peter Murdoch, ... ... 75 ,,

R. O. Wood Prize in Mineralogy-Robert Thomson.

## BOTANY, 1880.

MEDAL.

J. K. Duff, M.A.

FIRST CLASS CERTIFICATES (in order of merit).

J. K. Duff, M.A. J. M'Myn C. O. Hawthorne

#### SECOND CLASS.

J. H. Bryce Michael H. Greener J. Hinshellwood Peter Hodge Alfred Williams John Beveridge David Finlay W. F. Gibb Alex. Johnstone D. Macartney T. Maceulloch
J. W. Murdoch
John Prangnell
Alex. Robertson
J. C. Crawford
Arch. Maclean
M. Mackenzie
J. P. Smith
W. Stafford
George Wilson

#### HERBARIUM PRIZE.

Alex. Frew.

#### PRACTICAL CLASS.

1. David Finlay

2. Alex. Robertson Henry Rutherfurd Equal

3. W. F. Somerville, M.A.

### CHEMISTRY.

### SUMMER SESSION-1880.

JOSEPH BLACK MEDAL. William Martin

#### FIRST CLASS CERTIFICATES.

William F. Gibb Jas. C. Herbertson, M.A. John Kerr George R. Morris Alexander Peacock David W. Torrance

#### SECOND CLASS CERTIFICATES.

Wm. M. Brown John Burns John C. Crawford James Cumming David Finlay Alexr. Frew Herbert M. Gay Wm. T. Hamilton John Hay Jas. M. Headrick George M. Hogg Alexr. Johnston Evan Jones Jas. B. Lawson Wm. F. Quaife Robert Ramsay John Russell Anundo Lall Sandel James Shaw Wm. Stafford Wm. Vost Alfred Williams Jas. Wilson, M.A.

## WINTER SESSION-1880-81.

JOSEPH BLACK MEDAL. Charles O. Hawthorne

#### FIRST CLASS CERTIFICATES.

Charles H. Bowser Michael H. Greener Henry C. M'Ewen Trafford Mitchell James Wm. A. Murdoch John Ritchie

#### SECOND CLASS CERTIFICATES.

And. Alexander Alexr. Auld David Berry Robert Craik Jas. Hinshelwood Hugh Kelly Wm. L. B. Logan Thomas M'Culloch Alexr. M'Queen John M'Myn Robert G. Miller Arch. W. Montgomery James L. Napier James Shaw George Wilson

## Haculty of Arts.

### PRIZE LISTS.

### ENGINEERING.

### SENIOR CLASS OF CIVIL ENGINEERING AND MECHANICS.

- 1. John Cleland, Coatbridge
- 2. Naomoto Takayama, Japan

### Next in Order of Merit.

- 3. John Henry T. Turner, Birkenhead
- 4. Malcolm MacPherson, Govan

### JUNIOR CLASS OF CIVIL ENGINEERING AND MECHANICS.

- 1. William Kemlo, Dennistoun
- 2, 3. { Robert Randolph Bruce, Dufftown } Equal
  - 4. William Weir, Ibrox

### Next in Order of Merit.

5. John M'Cowan, Bridge of Allan

### SENIOR CLASS OF OFFICE AND FIELD WORK.

- 1. David Campbell Rattray, Partick
- 2. Kiyoshi Minami, Japan
- 3. Neil M'Kechnie, Edinburgh

## Next in Order of Merit.

- 4. James S. Hendry, Beith
- 5. Robert Randolf Bruce, Dufftown

### JUNIOR CLASS OF OFFICE AND FIELD WORK.

- 1. John Nicolson, Warsaw
- 2. William Kemlo, Dennistoun

## Next in Order of Merit.

- 3. Alexander G. Moore, Rutherglen
- 4. Andrew Brown, Kilmarnock

### WALKER PRIZES FOR WRITTEN EXAMINATIONS.

- 1. John Cleland, Coatbridge.
- 2. Malcolm MacPherson, Govan

## Next in Order of Merit.

- 3, 4. { Kiyoshi Minami, Japan } Equa
  - 5. John Henry T. Turner, Birkenhead

### WALKER PRIZES VOTED BY THE CLASS.

1. John Henry T. Turner, Birkenhead

2. William J. Mirrlees, Glasgow

#### GEORGE HARVEY PRIZE.

John Cleland, Coatbridge Naomoto Takayama, Japan

Next in Order of Merit. Kivoshi Minami, Japan

### MATHEMATICS.

UPPER SENIOR.

Written Examinations.

1. John Buchanan, University College, London.

#### SENIOR.

John Weir, Ibrox, Crossford School, Lanarkshire
 Rinzeburo Shida, Imperial College of Engineering, Tokio, Japan

3. Maitland H. Park, The Manse, Cumbernauld

4. John Nicholson, Pankiewiez' Real Schule, Warsaw

### Written Examinations. 1. John Weir.

#### UPPER JUNIORS.

#### A Division.

1. David Wilson, Glasgow, Hutcheson's Grammar School

2. Thomas Donald, Glasgow, High School

3. Hugh M'Intyre, Glasgow, Hutcheson's Grammar School 4. William Andrew, Cambusnethan, E. C. Training College

### B Division.

1. Archibald J. M'Nicol, Dunoon, Glasgow High School 2. Walter Wingate, Hutcheson's Grammar School, Glasgow

3. William Murray Equal R. Arthur Young

- 5. Alexander Whyte, Hutcheson's Grammar School, Glasgow
- 6. Norman Fraser, Hutcheson's Grammar School, Glasgow

## Written Examinations (both divisions).

1. David Wilson

- 2. Archibald J. M'Nicol
- 3. Thomas Donald | Equal Walter Wingate

#### LOWER JUNIORS.

### A Division.

- 1. Richard Glaister, Lanark (Private)
- 2. John Macbean, Glasgow Academy
- 3. Hugh Manners, Nottingham, Kilmarnock Academy 4. James Ross, Glasgow, Rumford Street Public School

#### B Division.

- J. M'Gill, Buryhill, Wishaw, and E. C. Training College
- T. Hodge, Catrine Public School, Ayrshire
- M. Blair, St. Paul's Balfour School and E. C. Training College
- R. Buchanan, Cardross Public School
- R. Hamilton, Parkhead Public School and E. C. Training College

### C Division.

- 1. David Frew, Airdrie, Airdrie Academy
  - 2. Gavin Lambie, Howwood, Howwood Public School
  - 3. John Laidlaw, Pollokshields, Bellahouston Academy

### Written Examinations (all three divisions).

- 1. Richard Glaister
- 2. David Frew James M'Gill | Equal

VACATION WORK.

Last Year's Seniors. John Buchanan, University College, London

Lower Juniors.

James Barr, Kilmarnock Academy Robert Young, E. C. Training College Equal

### ASTRONOMY.

CLASS PRIZES.

First Prize,	-	-	-	-	-	John Buchanan
Second Prize,	-	-	-	-	-	Robert Mitchell
Third Prize,	-	-	-	-	-	Neil M'Kechnie

## NATURAL PHILOSOPHY.

## I. For General Eminence, voted by the Class.

### STUDENTS OF FIRST YEAR.

- 1. Rinzaburo Shida, Tokio, Japan
- 2. Naomoto Takayama, Tokio, Japan
- 3. Alexander V. Lothian, Wishaw
- 4. John Gray, Glasgow
- 5. Alexander M'Queen, U.P. Manse, Milngavie
- Francis H. Stead, Howdon-on-Tyne, England
   Kiyoshi Minami, Tokio, Japan
- 8. Henry Stewart, Arbroath
- James Paterson, Kirkpatrick Juxta, Moffat William Weir, Ibrox, Glasgow
- 10. James Maclay, Glasgow
- Charles E. Darwent, Honiton, Devonshire Arthur S. Howell, Llanelly, Carmarthenshire 11.
- 12. William Hay
  - John Gibson, Partick
- David James, Glasgow John Struthers, Eaglesham Robert Veitch, Sunderland

### STUDENTS OF SECOND YEAR.

- 1. Neil M'Kechnie, Edinburgh
- 2. Peter Paterson
- II. Higher Mathematical Class.
  - 1. Rinzaburo Shida
  - 2. John Buchanan

### MORAL PHILOSOPHY.

I. Prizes awarded by the Votes of the Students for General Eminence in the Essays and Examinations of the Session.

### BUCHANAN PRIZE. George Saunders, Dundee.

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- 1. Francis Anderson, Glasgow 2. Francis H. Stead, Howden-on-
- Tyne 3. Robert Veitch, Sunderland
- Devonshire.
- 5. Adam Millar, Kelso
- 6. James Paterson, Moffat 7. Duncan M'Kinnon, Kirkin-
- tilloch 4. Charles E. Darwent, Honiton, 8. John E. Thomson, Dumbarton

#### JUNIOR DIVISION.

- 1. Jas. A. M'Callum, Kincardine | 6. Matthew White, Whiteinch
- 2. James Inglis, Johnstone
- 3. Alex. Anderson, Millerston
- 5. Robert C. Guy, Johnstone
- 4. James G. Davidson, Glasgow
- 7. Alex. M. Mitchell, Lenzie 7. Alex. M. Britonia,
  8. John P. Hogarth, Stranraer
- 9. Duncan C. M'Nicol, Duncon 10. David W. Marwick, Glasgow
- II. Prizes for Excellence in Written Examinations on the Lectures delivered during the Session.
  - { Francis H. Stead } Equal 1. Students' Prize,
  - 3. George Saunders

III. Prizes for Vacation Exercises.

- (a) For the best Examination in Kant's Critiques of Pure and Practical Reason, open to Students of Session 1879-80. John Struthers, Eaglesham.
  - (b) For the best Examination on Plato's Republic. Francis H. Stead.
  - (c) For the best Examination on Ferrier's Lectures on Greek Philosophy. Robert Veitch

## POLITICAL ECONOMY.

Prizes for Excellence in Essays and in Written Examinations on the Lectures delivered during the Session.

- 1. William Granger, Glasgow 2. Robert M. Wenley, Edinburgh
- 3. Robert Veitch, Sunderland

### LOGIC AND RHETORIC

I. For Eminence in the Work of the Class during the Session, as shown in Oral and Written Examinations, and Essays.

### FIRST PRIZE OVER THE CLASS.

(BUCHANAN PRIZE.)

Gavin Lambie, Lochwinnoch.

### SENIOR DIVISION.

- 1. William Muir. Bridgeton, Glasgow
- 2. Maitland Hall Park, Cumbernauld
- 3. Peter MacKenna, Girvan
- 4. John Dickinson, Campbeltown
- 5. George A. D. Kirkland, Glasgow
- 6. Allan Reid, Coatbridge
  - 7. Alexander Robinson, Partick
  - 8. James P. Maclaren, Govanhill 9. Edward H. Steel, Leeds
- 10. Alexander M'Gaw, Girvan
- 11. Archd. S. Laidlaw, Stewarton
- 12. James Knight, Glasgow

### JUNIOR DIVISION.

- 1. John H. Carslaw, Helensburgh | 5. George Pirie, Campbeltown 2. Cosmo G. Lang, Glasgow
- 3. John M'Coll, Pollokshields
- 4. William Scobie, Glasgow
- 6. William Brunton, Dennistoun
- 7. John Mann, Queen's Lea, Langside
- II. Work prepared during the Summer Vacation.

A.—Students of Session 1880-81.

Preliminary Examination in Reid and Whately:

#### SENIORS.

- 1. William Muir
- 2. Gavin Lambie | 3. Edward H. Steel

### JUNIORS.

- 1. John M'Coll
- 2. John H. Carslaw

B.—Students of Session 1879-80.

#### READING.

- I. Thomson's Outline of the Laws of Thought.
  - 1. Robert Veitch, Sunderland
  - 2. Robert C. Guy, Johnstone

### II. Descartes' Works.

- 1. John Gray, Hillhead, Glasgow
- 2. James Macleod, Glasgow

III. Hamilton's Discussions.

John P. Hogarth, Stranraer

### ADVANCED LOGIC CLASS.

(HIGHER METAPHYSICS.)

Essay on Hume and Kant on Causality.

1. Robert Mark Wenley, Edinburgh

2. James A. M'Callum, Gledfield, Ross-shire

### ENGLISH LITERATURE.

### SENIOR.

## BUCHANAN PRIZE.

1. Francis H. Stead, Howdon-on-Tyne

- I. Class Prizes.
  - 2. Alexander R. Barlas, Glasgow
  - 3. Cosmo G. Lang, Glasgow
  - 4. James Buchanan, Glasgow
  - George A. D. Kirkland, Glasgow
     Lewis Hughes, Swansea, Wales
  - 7. Arthur Kay, Glasgow
  - S. Charles Steele, Ochiltree, Ayrshire
- II. Voluntary Written Examination.
  - 1. Hugh Guthrie, Govan
  - 2. Francis H. Stead
    - 3. Alexander R. Barlas
- III. Essays and Verses.
  - A.—Prose Essay on the Humorists of the Nineteenth Century.

    Arthur Kay.
  - B.—Verses on "Pompeii."

John Telfer, Colmonell, Ayrshire Thomas M'Kean, Glasgow

#### JUNIOR.

- 1. Class Prizes.
  - 1. George A. Gibson, Greenlaw, Berwickshire
  - 2. David Watson, Alva, Stirlingshire
  - 3. James Macleod, Glasgow
  - 4. Charles Thomson, Glasgow
  - 5. Peter MacKenna, Girvan, Ayrshire
  - 6. John Blair, Glasgow
  - 7. James Macpherson, Newmilns, Ayrshire
- II. Voluntary Written Examinations.

Archibald Laidlaw, Stewarton, Ayrshire

III. Essay on the Humorists of the Eighteenth Century.

John M'Coll, Pollokshields, Glasgow

### GREEK.

I. Prizes awarded by the Votes of the Students for General Excellence in the work of the Session.

### SENIOR CLASS, 8 A.M.

## JEFFREY GOLD MEDAL.

Hugh Ashcroft (Glasgow Academy)

### PRIZES.

- 1. Robert H. Paton (High School, Glasgow)
- 2. H. F. Callan (Ayr Academy)
- 3. Hugh Dickie (Kilmarnock Academy)
- 4. James Adam (High School, Stirling)
- 5. John L. Cameron (High School, Glasgow)
- 6. James Barr (Kilmarnock Academy)
- 7. John Struthers (Eaglesham)
- 8. William Clarke (Old Cumnock Parish School)
- 9. Hugh Stevenson (Kilblain Academy, Greenock)

### MIDDLE GREEK CLASS (PROVECTIORES).

## SCOTT-MACFARLAN GOLD MEDAL.

## Andrew F. Smith (Whithorn Public School)

### PRIZES.

- 1. Hugh Sutherland (High Street Public School, Kilmarnock)
- 2. Alexander Russell (High School, Glasgow)
- 3. David Wilson (Hutcheson's Grammar School, Glasgow)
- James Scott (Glasgow Highland Society's Schools and F. C. Normal College)
- 5. Alexander Whyte (Hutcheson's Grammar School)
- Andrew M. Smith (Cumnock Public School and Ayr Academy)
   William Wallace (F. C. Normal College)
- 7. William Wallace (F. C. Normal Colle
- 8. James Couts (Middleton, Braemar)
- 9. Peter M'Clure (Glasgow)
  10. Alexander Mackay (Oban)
- 11. Archibald W. Bain (Greenock Academy)
- 12. William Stewart (Ibrox)

## JUNIOR CLASS (TIRONES).

### PRIZES.

- 1. Richard Glaister (Lanark)
- 2. Alex. L. Taylor (Glasgow)
- 3. James Gray (Stonehouse, Hill Public School)
- 4. John Sandilands (Glasgow)
- 5. Fergus Smith (F. C. Normal School)
- 6. William T. Mitchell (High School, Glasgow)
  7. George Middleton (High School, Glasgow)
- 8. James Niven (Killean Public School)
- 9. William Muirhead (Bellahouston Academy)
- 10. Thomas Munn (St. James's Parish and Mechanics' Institution)

II. Prizes for Written Examinations and Exercises.

SENIOR CLASS, 8 A.M.

For an Examination on the Attic Orators (Selections); Herodotus, Book VIII.; and Homer, Odyssey, Books VI., VII.

Hugh Ashcroft.

SENIOR AND PRIVATE CLASS, 2 P.M.

For an Examination on Aristotle, *Politics*, Books I., III. Hugh Ashcroft.

For an Examination on Sophocles, *Trachiniae*.

James M'Millan.

MIDDLE GREEK CLASS.

For an Examination on Xenophon, Anabasis, Book III.  ${\rm Hugh\ Sutherland}.$ 

For an Examination on Herodotus, Book II. (Extracts), and Homer, *Iliad*, Book XXIV.

Andrew F. Smith:

For an English Essay on "The Religious and Social Life of Egypt as described by Herodotus."  $\,$ 

Andrew Halden.

JUNIOR GREEK CLASS.

For an Examination on Greek Grammar. George Bone.

For an Examination on Sandford's Greek Extracts.
Richard Glaister.

For an Examination in Comparative Philology. Fergus Smith.

III. Prizes for Vacation Exercises.

SENIOR AND PRIVATE CLASS OF SESSION 1879-80.

For Greek Prose Composition.

James M'Millan.

Highly commended—John A. Cram.

SENIOR CLASS OF SESSION 1880-81.

For Greek Prose Composition.

Hugh Ashcroft.

For a Written Examination on Herodotus and Sophocles.

Douglas Dunlop.

MIDDLE GREEK CLASS OF SESSION 1880-81.

For Greek Prose Composition.

Archibald John MacNicol.

For a Written Examination on Xenophon and Homer. William Stewart.

> GOLD MEDAL FOR MODERN GREEK. Hugh Ashcroft.

## BLACKSTONE EXAMINATION.

COWAN GOLD MEDAL. James M'Millan.

### HUMANITY

Prizes for General Eminence during the Session, awarded by the Votes of the Students.

PUBLIC CLASS—SENIOR, 9 A.M.

Cowan Gold Medal.

Hugh Dickie, Kilmarnock (Kilmarnock Academy).

### Prizes.

2. James Barr, Monkland (Kilmarnock Academy)

3. Peter M'Clure, Glasgow (Glasgow Academy)

- 4. William Clark, Old Cumnock (Old Cumnock Public School) 5. Alexander Whyte, Busby (Hutcheson's Grammar School)
- 6. John S. M'Conville, Glasgow (Glasgow High School & Academy) 7. William Rees, Llanelly (Athenaeum School, Llanelly)

8. James Adam, Stirling (Stirling High School) 9. R. Arthur Young, Glasgow (Glasgow Academy)

- 10. James Mackie, Stewarton (Kilmarnock Academy) 11. Charles C. Grant, Glasgow (Glasgow High School)
- 12. William Kilpatrick, Dumbarton (Dumbarton Burgh Academy)

#### JUNIOR CLASS-HIGHER DIVISION.

- 1. Ewen A. Rankine, Clachan, Kintyre (Kilcalmonell Public School)
- 2. David Wilson, Glasgow (Hutchesons' Grammar School)

3. Richard Glaister, Lanark

- 4. James Craig, Kilmarnock (Kilmarnock Academy) 5. Andrew M. Smith, Cumnock (Ayr Academy)
- 6. William Taylor, Muthill (Muthill Public School)
- 7. James Scott, Glasgow (Highland Society School) 8. Robert Tarbet, Darvel (Darvel Public School)
- 9. William Hay, Dumbarton (Dumbarton Burgh Academy) 10. James Gray, Stonehouse (Hill Public School, Stonehouse)
- 11. Arch. Fleming, Strathaven (St. John's Grammar School, Hamilton)
- 12. Hugh Manners, Kilmarnock (Kilmarnock Academy)

JUNIOR CLASS-LOWER DIVISION.

1. James Yule, Kennethmont (Kennethmont Parish School)

2. Matthew Young, Glasgow (Anderson's College)

3. Archibald Campbell, Glasgow (Athenaeum)

4. Arthur W. Humphreys, Connah's Quay (Howarden Public School)

5. John Conway, Troon (Private Study)

6. Archibald Wilkie, Rothesay (Rothesay Public School)

Prizes for Written Examinations and Exercises.

Prizes on the Foundation of the late Professor Muirhead for Examinations in the Lectures delivered, and the Books read, in the daily 1 p.m. Class. The Subjects read were as follows:—Annals of Tacitus, III., IV.; Plautus, Miles Gloriosus; Virgil, Æneid, IX.; with Lectures on Ancient History.

1. Charles Steele, Ochiltree (Ayr Academy)

2. Malcolm T. S. Taylor, Langholm (Dennistoun Academy)

DISTINGUISHED.

William Clark, Old Cumnock Hugh Stevenson, Kilblain Academy, Greenock

SENIOR CLASS, 9 A.M.

- Prizes for Examination in the Books read in the Class during the Session, viz.:—Odes of Horace, 111., IV., and Epodes; Jugurtha of Sallust.
  - Hugh Dickie, Kilmarnock
     James Barr, Monkland

For Latin Prose Composition.

IN SECTION I.
Alexander Graham, Roxburgh

IN SECTION II.
William Rees, Llanelly

VACATION SUBJECTS.

For a Written Examination in Cicero de Oratore, I., and Virgil Geo., I.

1. Hugh Dickie, Kilmarnock

2. Alexander Graham, Roxburgh

FOR A TRANSLATION INTO LATIN PROSE.

1.—Senior Class, 1879-80.
Daniel Rankin, Greenock (Greenock Academy)

2.—Senior Class, 1880-81. Alexander Graham, Roxburgh

BLACKSTONE EXAMINATION.

Cowan Gold Medal.

Duncan A. C. Reid, Glasgow (Loretto School)

## VIII.—EXAMINATION QUESTIONS.

## I.—FOR DEGREE OF M.A.

APRIL 1881.

FOR ORDINARY DEGREE.

A.—DEPARTMENT OF CLASSICAL LITERATURE.

### LATIN.

Translate-

- 1. Virgil, *Æneid*, IX, 603-620.
- 2. Horace, Od., IV, 8. 1-12.
- 3. ,, Epist. I, 14. 10-21. 4. Tacitus, Annals, IV, 27.

# FOR LATIN PROSE.

The castle was strongly fortified, and the duke fearing that a sally would be made at dawn, determined to withdraw his troops. One of the soldiers, however, declared that he knew a way by which the rock could be ascended, and that he had often descended and ascended that way by night. He promised to go before and point out the way. When half the ascent was accomplished, as they sat down to rest, one of the sentinels in jest threw down from the top a fragment of rock, crying out that he saw them. The stone bounded over the heads of the assailants; but such was their courage that no one moved from his place. When the sentinel passed on, they again began the ascent, and on reaching the walls, applied the ladders which they had brought with them.

## GREEK.

1. Translate—

Sophocles, Trachiniae, 293-306.

749-758.

What is meant by the Irony of Sophocles? Give an illustration from the *Trachiniae*.

2. Translate-

Herodotus, VIII, 20.

How did Herodotus regard oracular utterances? Compare him in this respect with Thucydides.

3. Translate-

Herodotus, VIII, 119.

## GRAMMAR, HISTORY, AND ANTIQUITIES.

1. Distinguish between coeperunt and coepti sunt; what is meant by ablative absolute, historical infinitive, enclitic? What words are enclitic in Latin?

2. Give the Attic forms for ἐσσί ἔμμεναι, ηα, κάππεσε, and the Ionic

forms for βάδιος, έαυτόν, νόσος, ναθς, ξένος.

3. Express in Greek ipse fecit, idem fecit, quidam fecit, quis fecit?

quisque fecit.

4. Describe the part taken by Athens in the Persian Wars. What effect had this upon Greek history?

5. Point out some of the dangers of slavery to Roman society.

6. What was the object of the leges agrariae? Give the dates of the principal laws of this kind in Roman history.

7. Illustrate from Tacitus how the establishment of the Empire at

Rome affected literature.

8. Name the chief provinces under Tiberius, and the modern countries with which they correspond.

9. Who were Delatores? At what period was a corresponding class

found in Greek history?

10. Distinguish relegatio, deportatio; triumphus, ovatio; rem ad Senatum deferre, rem ad Senatum referre.

## B.—DEPARTMENT OF MENTAL PHILOSOPHY.

## LOGIC.

1. What is meant by a Concept and what by a Term? State the processes by which a Concept is formed. Distinguish Abstract, General, Universal Ideas. Notice mistakes made regarding these by philologists.

2. State the two ordinary logical rules regarding the distribution of the Predicate in Affirmative and in Negative propositions. Criticise

them. Is InI justifiable?

3. Distinguish Comprehension and Extension in a Concept. State the law regulating their relation. Arrange the following in the order of Extension:—Organized, Horse, Animal, Being, Biped, Quadruped, Cow, Hen. Whether is attribute or logical class first in knowledge?

4. State precisely what is meant by the Opposition of Propositions. Is Some A is B truly opposed to Some A is not B? Is it possible to make any statement which does not assume the fact and the truth of the law of Non-Contradiction? Give reasons for your answer.

5. Write out in letters the moods in the Second Figure. Reduce any

two of them to moods of the First.

6. Give an account of Sensation and Perception, noticing the views

generally of Reid and Hamilton.

7. "Sensation and Association are the only sources of our knowledge." Examine and criticise this statement. Mention the author or authors whose views it represents.

8. "Cause is merely invariable sequence." Examine this statement.

9. Explain how we judge of the distance of near and of remote objects in Vision.

10. Give a classification of the Senses. How are Time and Space related to Sense-perception?

11. Write a short account of Memory and Imagination, distinguishing the various elements in each.

12. Give a brief account of the aim, method, and results of the philosophy of Descartes.

### MORAL PHILOSOPHY.

- 1. "The differences of opinion among philosophers prove the impossibility of solving the philosophical problem." Criticise this statement.
- 2. How did the ideas of Socrates influence the psychology of Plato? 3. Give Aristotle's definition of Happiness. What use does Aristotle make of it in the Ethics?
  - 4. "Virtue is knowledge": "Virtue is habit." Explain each of these

savings. Are they capable of being reconciled?

- 5. What are the main difficulties in developing a philosophical system on the basis of Hedonism? Compare ancient and modern Hedonism.
- 6. "Scepticism was the necessary result of the way in which the Stoics and Epicureans stated the problem of knowledge." Explain and examine this.
  - 7. Give and examine the different theories of legal punishment.

8. Compare the Kantian with the Berkleian Idealism.

- 9. What are the most general points of agreement and difference between modern and mediæval Ethics?
- 10. Criticise the "moral sense" theory. Under what different forms has it appeared?
- 11. Give Kant's three different ways of stating the principle of morals. Is there any essential difference between them?
- 12. Compare the individualistic with the patriarchal theory of the State. Is there any other possible theory?

Candidates are expected to answer nine of the above questions.

## ENGLISH LITERATURE.

- 1. Distinguish between the first and second in the following pairs of words:-Autonomasia, Personification; Rhyme, Rhythm; Euphemism, Euphuism; Eloquence, Rhetoric; Irony, Innuendo; Antithesis, Anticlimax.
- 2. Give the rules for the arrangement of words in an English sentence, and the arrangement of sentences in a paragraph.
  - 3. Draw out a short table of the different varieties of Prose and
- Poetry, briefly but clearly distinguishing each from the others.
  4. Define "a pronoun," "an adjective," "an adverb," and "an interjection." What are the main faults of style connected with the misuse of each? Give examples.

5. What are the main advantages and defects of the English as compared with any other widely-extended language, ancient or modern?

6. Narrate the chief steps in the history of the formation of our

modern standard English.

7. What classes of words in our language may be referred to the following sources:—Latin, Greek, French, Anglo-Saxon, and extra-European? Distinguish them as to their form and the things to which thev relate.

8. Give some account of our Ballad literature; make some classification of the Ballads, and instance one or more representatives of each

class.

9. Refer to the leading characteristics of the early literature of Scotland, and illustrate your answer by a more detailed estimate of any two of the poets of the 15th and 16th centuries.

10. How most conspicuously did the history of the 17th century affect

its literature?

11. Give a list of Chaucer's minor works, and refer to some of the sources from which he drew.

12. Enumerate the narrators of the Canterbury Tales, and where you can, state the subjects of their tales.

13. Sketch briefly the rise and progress of the drama in England. Give the name, floruit, and chief work of the leading dramatists who preceded, or were contemporaries of, Shakespeare.

14. Give a list of Shakespeare's plays under the heads of Tragedy.

Comedy, and History.

15. Outline the lives and characterise the works of any two of the

following:—Sackville, Sidney, Raleigh, Hooker, Herbert, Bunyan.
16. State the plot of Shakespeare's "Julius Cæsar," or of his "Coriolanus," and, in either case, describe some of the leading characters.

Nine questions to be answered.

## C.—DEPARTMENT OF MATHEMATICS.

## MATHEMATICS GEOMETRY.

1. Show that there cannot be a triangle DBC inside the triangle ABC

and having DB, DC equal to AB, AC respectively.

2. Prove that if two sides of a triangle be unequal, the angles opposite them must also be unequal, the greater angle being opposite the greater side.

3. In the triangle ABC, AD is drawn perpendicular to BC, and the angle BAC is bisected by AE. Show that the angle EAD equals half

the difference between the angles B and C.

4. The straight line BC is bisected in D and produced to E. Prove that the sum of the squares on BE and EC is double the sum of the squares on BD and DE.

5. Explain and illustrate the geometrical use of the word locus.

6. Prove that in equal circles equal angles at the circumference stand upon equal arcs.

7. Find the locus of the middle point of a line drawn from a given

point to a given circumference.

8. Show how to describe a circle about a given triangle.

9. Prove that the square on the side of an equilateral triangle inscribed in a circle is equal to three-fourths of the square on the diameter.

10. Prove that the area of a regular hexagon is greater than that of

an equilateral triangle of the same perimeter.

11. When according to Euclid is one ratio duplicate of another?

12. Prove that triangles which have one angle of the one equal to one angle of the other and the sides about the equal angles reciprocally pro-

portional, are equal in area.

13. In the triangle ABC, AD is drawn perpendicular to BC and in BD a point E is taken such that thrice the square on BE equals the rectangle BC, BD. Show that a line through E, parallel to AD, cuts off a third of the triangle.

14. Prove that a rectilineal figure described upon the hypotenuse of a right-angled triangle is equal in area to the sum of the similar figures

similarly described upon the two other sides.

### ALGEBRA AND TRIGONOMETRY.

1. Multiply  $2^{2n-1}+2^n+1$  by  $2^{2n-1}-2^n+1$ , giving the result in two terms.

2. Simplify the expression 
$$\left[1-\frac{1-\frac{1}{b}}{b}\right]\div(b^4-1)$$
.

3. Find the lowest common multiple of

$$x^6+1$$
,  $x^4-1$ ,  $x^4+2x^2+1$ ,  $x^8+x^4+1$ .

4. The sum of two numbers is to their difference as the excess of twice the greater over the less is to the less. Find the ratio of the two numbers.

Solve the equations—

5. 
$$\frac{x}{x-1} + \frac{x-1}{x+1} + \frac{7}{1-x^2} = 0$$
.  
6.  $(x^{\frac{1}{2}} - 1)^3 + 7 = \sqrt{x^3}$ .  
7.  $x^3 - y^3 = 7y = 7 (x - y)$ .

8. The area of a rectangle is 2592 sq. ft. If the breadth were increased and the length diminished by 3 ft., we should have a square. Find the length and breadth.

9. Simplify  $\sqrt[2]{3}/\sqrt[5]{x} \div \sqrt[2]{x}\sqrt[3]{x}$ , and express as one surd the pro-

duct of  $\sqrt[6]{2}$  and  $\sqrt[2]{6}$ .

10. It being given that a, b, c are in geometrical progression, express (a+b+c) (a-b+c) as the sum of three second powers.

11. A rectangular block of stone is as broad as it is long, and contains a cubic feet. If it were made as broad as it is high, the bulk would be b cubic feet. Find the length.

12. Define the two units in use for the measurement of angles, and

show the connection between them.

13. The tangent of an angle is \(\frac{3}{4}\). Find the versed sine of the complement of the angle.

14. Express  $\frac{\tan^2\theta - \sin^2\theta}{\cot^2\theta - \cos^2\theta}$  in terms of  $\tan \theta$ .

15. Find the logarithm of 125 to the base 25, the logarithm of  $a^m$  to

the base  $a^n$ , and  $\log_a \log_a \log_a a^a$ .

16. The hypotenuse of a right-angled triangle is 75 ft. long, and one of the angles is 75°. Find the area.

### NATURAL PHILOSOPHY.

### DYNAMICS.

1. Explain how a velocity is graphically represented, and enunciate

the theorem known as the parallelogram of velocities.

2. Show that in the case of uniformly accelerated motion the average velocity over a given distance is the arithmetic mean of the initial and final velocities.

3. Forces of 30, 40, 40 act upon a particle, the angle between the directions of the first two being 45°, and that between the directions of the last two 30°. Find the magnitude of the resultant.

4. Describe two modes of procedure for finding the resultant of a

number of forces acting in one plane on a particle.

5. Mention grounds for the conclusion that the attraction of the earth on a body is proportional to the mass of the body.

6. Explain in connection with one another the terms centre of parallel forces, centre of mass or inertia, centre of gravity, centre of figure.

7. A body which has fallen vertically strikes the ground with velocity

How long before the impact was it h feet from the ground?

8. If a rigid body be movable only round an axis, and forces be applied

to it, what is the condition of equilibrium?

9. Define a lever. How may levers be combined in a system? Make a sketch showing two levers of different kinds so combined for the purpose of raising a weight.

10. Explain two methods for obtaining accurate results with a balance

whose arms are unequal.

11. A 32 lb. ball is thrown vertically upwards with a velocity of 20 feet per second. What is its kinetic energy when it has gone 5 feet?

12. Explain how work is measured, and define the units in use. What

is meant by the effective component of a force?

13. Write down the pendulum formula. Find how many vibrations a simple pendulum 4 inches long would make in a minute at Glasgow.

14. Define simple harmonic motion. Find the resultant of two simple harmonic motions in lines at right angles to each other, of equal period, and differing in phase by a quarter period.

### ASTRONOMY.

1. Explain how there are annually in the neighbourhood of the equator two summers and two winters.

2. Define a sidereal and a tropical year. What phenomenon is con-

nected with the difference in magnitude of the two?

3. Explain the origin of the name *planet*, and mention the points of resemblance and difference between the apparent paths of a superior and inferior planet.

4. Define declination and right ascension. What are the small variations to which these measurements in the case of a star are subject?

5. Describe shortly a method of finding the density of the earth. What other planets have nearly the same density?

6. Show that the altitude of the pole at any place on the earth's sur-

face is equal to the latitude of the place.

7. Explain how an observation of latitude is affected by the presence of the atmosphere.

8. Give a short account of a method of finding the longitude of a place

on the earth's surface.

9. What is the period of the sun's rotation on his axis? How has it been ascertained?

### EXPERIMENTAL PHYSICS.

1. Define specific gravity of a solid or liquid and specific gravity of a gas. Find the specific gravity of a piece of cork from the following data:—

Weight of cork in air - - - 2 grammes. Weight of cork and sinker in water - - 4 ,, Weight of sinker in water - - 12 ,,

2. Find the pressure on the bottom and on the side of a cubical vessel

three metres deep and filled with water.

3. Find the weight of a cubic metre of dry air at temperature 25° C. and barometric pressure 74 c.m. [1000 cubic centimetres of dry air at 0° C. and 76 c.m. weigh 1.293 gramme.]

4. What is meant by the "apparent" and the "absolute" expansion of a liquid. How are they related to each other? Describe a method

of determining the absolute expansion of a liquid.

5. Describe Hope's experiment for determining the maximum density of water.

6. Describe briefly the construction of the eye. What is meant by the optic axis of the eye? Explain the defects known as long-sightedness and short-sightedness.

7. Distinguish between a continuous noise and a musical note. Describe and explain the phenomenon of beats heard when two notes very

nearly in tune are sounded together.

8. How is the Newtonian velocity of sound in a gas calculated? How

does it differ from a true velocity, and why?

9. Find the number of vibrations made in a second by an organ pipe 16 ft. long, open at both ends, sounding its fundamental note. [The velocity of sound in air to be taken at 1,100 ft. per second.]

10. Describe the vibrations which constitute (a) plane polarised light, (b) circularly polarised light, (c) ordinary unpolarised light. Define

"plane of polarisation" in plane polarised light.

11. Describe experiments to show the elementary phenomena of electrostatic attraction and repulsion. Describe the Leyden Jar, and explain how it is that the Leyden Jar can contain a large quantity of electricity.

12. Describe the Tangent galvanometer, and explain how to use it.

13. Give an account of the contact theory of the Voltaic pile.

#### FOR DEGREE WITH HONOURS.

(AND FOR SNELL EXHIBITIONS.)

A.—DEPARTMENT OF CLASSICS.

### LATIN.

1. Translate-

Hate—
Virgil, Georgics, II, 259-278.
Lucretius, IV, 595-606.
Horace, Ars. Poet., 366-378.
Tacitus, Annals, IV, 6.
Livy, V, 18, . . . declaratus.
Catullus, LXVIII, 15-26.
Cicero, Philippics, V, 8, 22, 23.
Gellius, Noct. Att., II, 30, 1, 2.

Make short notes on the above passage of Virgil. Compare the Elegiac couplet as found in Catullus and Ovid.

2. Translate and explain-

(a) Tu non solvendo eras.

(b) Modicus dignationis et quoquo facinore properus clarescere.

(c) Hic unde vitam sumeret inscius pacem duello miscuit.

(d) Iupiter ipse duas aequato examine lances Sustinet, et, fata imponit diversa duorum, Quem damnet labor et quo vergat pondere letum.

(e) quibus caelo te laudibus aequem?

Iustitiaene prius mirer, belline laborem?

Translate into Latin Prose-

Some license of speech Sylla was, of course, prepared for, but it required no small courage to make a public attack either on himself or his dependants, and it was therefore most creditable to Cicero that his first speech of importance was directed against the Dictator's immediate friends, and was an exposure of the iniquities of the proscription. Cicero, no doubt, knew that there would be no surer road to favour with the Roman multitude than by denouncing Sylla's followers and that, young and unknown as he was, his insignificance might protect him, however far he ventured. But he had taken the Senate's side. From first to last he had approved of the reactionary constitution, and had only condemned the ruthless methods by which it had been estab-

lished. He never sought the popularity of a demagogue, or appealed to popular passions, or attempted to create a prejudice against the aristocracy, into whose ranks he intended to make his way. He expressed the opinions of the respectable middle classes, who had no sympathy with revolutionists, but who dreaded soldiers and military rule and confiscations of property.

### GREEK.

### I. Translate-

Homer, Odyssey, X, 302-319. Thucydides, IV, 55, 1-2. , VI, 16, 3-5. Sophocles, Ed. Col., 1206-1219. Æschylus, Eumenides, 201-212. Euripides, Iphig. in Aulide, 303-316. Plato, Gorgias, 484, 2-4. Isocrates, ad Demon., 46, 47.

- 2. Translate and remark upon the following:-
  - (a) <sup>¬</sup>Ω 'Οδυσεῦ, τὸ μὲν οὕτι σ' ἐἴσκομεν εἰσορόωντες ἡπεροπήα τ' ἔμεν καὶ ἔπίκλοπον, οἶά τε πολλοὺς βόσκει γαῖα μέλαινα πολυσπερέας ἀνθρωπους ψεὐδεά τ' ἀρτύναντας, ὅθεν κέ τις οὐδὲ ἴδοιτο΄ σοὶ δ' ἔπι μὲν μορφἡ ἐπέων, ἔνι δὲ φρένες ἑσθλαί.
- (b) Παραινόχον δὲ καὶ οἱ ἐκ τῆς πόλεως Πλαταιῆς ἀπὸ τοῦ τείχους φρυκτοὺς πολλούς, πρότερον παρεσκευασμένους ἐς αὐτὸ τοῦτο, ὅπως ἀσαφῆ τὰ σημεῖα τῆς φρυκτωρίας τοῖς πολεμίοις ἦ καὶ μὴ βοηθοῖεν.
- (c) Κρείσσους δε ὄντες ἄπαντες λογισμῷ ἐς τὸ ἀνέλπιστον τοῦ βεβαίου μὴ παθεῖν μάλλον προεσκόπουν ἡ πιστεῦσαι ἐδύναντο.
  - (d) Κτύπησε μέν Ζεὺς χθόνιος, αἱ δὲ παρθένοι ρίγησαν ὡς ἥκουσαν.

Translate into Greek prose :--

There was very lately a lad in the University of Oxford, who was by his poverty forced to leave his studies there; and at last to join himself to a company of vagabond gipsies. Among these extravagant people, by the insinuating subtility of his carriage, he quickly got so much of their love and esteem as that they discovered to him their mystery. After he had been a pretty while exercised in the trade, there chanced to ride by a couple of scholars, who had formerly been of his acquaintance. They quickly spied out their old friend among the gipsies; and he gave them an account of the necessity which drove him to that kind of life, and told them that the people he went with were not such impostors as they were taken for, but that they had a traditional kind of learning among them, and could do wonders by the power of imagination, their fancy binding that of others; that himself had learned much of their art, and when he had compassed the whole secret, he intended, he said, to leave their company, and give the world an account of what he had learned.

### GENERAL PAPER.

1. Give the different meanings of the following words according to their difference of accentuation:  $-o\dot{\nu}\kappa o\nu$ ,  $\beta \iota os$ ,  $\alpha \gamma \omega \nu$ ,  $a\rho \alpha$ ,  $\alpha \lambda \lambda a$ ,  $\epsilon \pi \iota$ ,  $\tau \alpha \nu \tau a$ ,  $\omega \nu$ ,  $a\nu$ ,  $a\dot{\epsilon}\iota a$ ,  $\pi a\rho a$ ,  $\nu o\sigma \omega \nu$ ,  $\eta$ ,  $\mu \epsilon \nu \omega$ ,  $a\mu \nu \nu a\iota$ : and of the following according to their difference in quantity, acer, canes, comas, mane, miseris, es, fabula, fide, nitere.

2. Show, from Horace-

(a) Who was the inventor of Iambic verse.

(b) With what limitation the Spondee was admitted into it.

(c) The state of tragedy under Thespis and its improvement by Aeschylus.

3. Explain these terms—χορηγεῦν, χορὸν διδόναι, τετραλογία, περιπέτεια; jus gentium, prisci Latini, quirites, patres conscripti, conventus provinciae.

4. Give some account of Greek prose literature before Thucydides.

5. Trace the influences that led to the insertion of so many speeches in the history of Thucydides, and show the relation of the speeches to the general plan of the work.

6. Relate briefly the events in the Peloponnesian War from the time

of the Four Hundred to its close.

7. Estimate the credibility of the history of the Roman kings.

8. Translate—Augustus heredes instituit primos Tiberium ex parte dimidia et sextante, Liviam ex parte tertia; secundos Drusum Tiberii filium ex triente, et ex partibus reliquis Germanicum liberosque ejus sexus virilis; tertio gradu propinquos complures.

9. The principal work of Suetonius is usually described as "The Lives

of the Twelve Cæsars": criticise this title.

10. Mention the three principal characters in the "Gorgias," and describe the part taken by each in the dialogue.

## B.—DEPARTMENT OF MENTAL PHILOSGPHY.

## LOGIC.

## FIRST PAPER.

1. Sketch the history of the word *Idea* as a philosophical term from Descartes and Locke to Hume.

2. Compare generally Descartes and Spinoza as to method and results

in philosophy.

3. State and examine Hamilton's doctrine of the Conditioned, explaining precisely the meaning of the phrases—the Unconditioned, the Conditionally Conditioned. Notice criticisms of the doctrine,

4. State and examine Grote's view of the Protagorean formula.

5. State the place and value assigned by Kant to psychological method. Criticise his view.

6. Examine the logical value of the conception of limit, and the immanent dialectic of Hegel.

7. Examine the laws of Association, and criticise the Associationist

Psychology.

8. The various meanings of the terms Substance and Phenomena.

### SECOND PAPER.

1. Distinguish between the logical processes involved in (a) Induction under Mill's canons; (b) Induction per enumerationem simplicem; (c) Mathematical Induction; (d) Colligation.

2. State and examine different views as to the nature and value of

Formal Logic. Notice Aristotle and Kant on this point.

3. State various views regarding the nature and kinds of Judgment, referring especially to Kant and Hamilton.

4. Examine the notion of Quantity in Extension and Comprehension. Show the bearing of the distinction on propositions and reasonings.

5. State and examine the various meanings of the term Thought.

6. Give a brief account of the philosophy of Perception by Berkeley and Malebranche.

7. Notice briefly the chief points in Scholasticism, from Scotus

(Erigena) to its close.

8. The various views of the nature of Causality.

### MORAL PHILOSOPHY.

### FIRST PAPER.

1. State and criticise Plato's view of the relation of Poetry to Philosophy.

2. Compare Plato's idea of the good, as an ethical principle, with

Aristotle's idea of happiness.

3. Compare Aristotle's Individualism with the Monadism of Leibnitz, with special reference to their respective views of theology.

4. "The Reformation was the apotheosis of Individualism." Examine

this.

5. Give and examine Kant's theory of the Schemata.
6. "Fiat justitia, ruat coelum." Criticise this saying.

7. Estimate the philosophical value of empirical psychology.

8. What is the value of a social philosophy which is built upon the analogy of Society to the living body?

9. Criticise Kant's view of the relation of Religion and Morality.

### SECOND PAPER.

1. "Philosophy is unlike the other sciences in that it is not allowed to presuppose either its objects or its method." Explain and examine this.

2. "The amount of my mental activity in any hour could be exactly measured, had we the instruments, in terms of the physical waste of nerve material." Criticise this statement. If it be true, what follows?

3. Define madness. What ought to be the test of criminal responsi-

bility where unsound mind is pleaded?

4. Trace the relation between Kant and Hegel, with special reference to their respective views of Art.

5. "Comte's social philosophy is Catholicism without Christianity." Examine this.

6. What are the moral aspects of the idea of Immortality?

7. Discuss the justice of Kant's criticism of the Hedonistic philosophy. 8. Examine the ethical principles of any one of the following writers: -Spencer, Sidgwick, Von Hartmann, Schopenhauer.

9. Criticise Kant's view of the relation of Ideas to Experience.

### ENGLISH ESSAY.

"Criticism. Its History, Laws, and Tendencies." Refer to indications of the critical spirit in ancient times—among the Greeks and the Romans—to the influence of the so-called 'classical school' in France and England during the eighteenth century: to the Romantic reaction, and to the dangers of over-criticism in our own time.

### C.—DEPARTMENT OF MATHEMATICS.

### MATHEMATICS.

### FIRST PAPER.

1. If the number of combinations of n things taken r at a time be denoted by C, r, prove that

$$\mathbf{C}_{n, r} = \mathbf{C}_{n, n-r}$$
  
=  $\mathbf{C}_{n-1, r} + \mathbf{C}_{n-1, r-1}$ .

2. If  $t_1, t_2, t_3, \ldots$  be a series of numbers such that  $t_3$  is the arithmetic mean between  $t_1$  and  $t_2, t_4$  the arithmetic mean between  $t_2$  and  $t_3$ , and so on, find  $t_{\infty}$  in terms of  $t_1$  and  $t_2$ .

3 Prove that

$$1^3 + 2^3 + 3^2 + \dots + n^3 = (1 + 2 + 3 + \dots + n)^2$$

4. Find the sum of

$$1 + \frac{a-1}{1 \cdot 2} + \frac{(a-1)(a-2)}{1 \cdot 2 \cdot 3} + \dots + \frac{(a-1)(a-2)\dots\left\{\frac{1}{2}(a+3)\right\}}{1 \cdot 2 \cdot 3 \cdot \dots \cdot \frac{1}{2}(a-1)}$$

and show that it is an integer if a be a prime.

5. Find the development of  $\tan (\alpha + \beta + \gamma + ...)$  in terms of  $\tan \alpha$ ,  $\tan \alpha$  $\beta$ , tan  $\gamma$ , ...

6. Find the equation of the circle passing through the three points

 $(h_1k_1), (h_2k_2), h_3k_3$ .

7. The sides of a parallelogram are fixed in length and one of them is fixed in position. Find the locus of the middle point of the side opposite the latter.

8. Find at what angle the parabola  $y^2 = 4ax$  cuts the ellipse  $4x^2 + y^2 = 4a^2$ .

9. Explain how the differential coefficient of a function may be viewed

10. Find directly from the definition the differential coefficient of  $\sin x$ and  $\sin^{-1}x$ .

11. Simplify the expression

$$(x^2-a^2)^{\frac{1}{2}}\frac{\delta}{\delta x}\log\left\{(x-a)^{\frac{1}{2}}+(x-a)^{\frac{1}{2}}\right\}$$

12. Find the expansion of  $\tan x$  according to ascending powers of x. Thence find the like expansion of  $\log (1 + \cos x)$ .

13. Trace the curve whose equation is

$$(x-a)(y+a)^2 = a^2(2a-x).$$

Find the length of the subtangent for the point (x, y). When is it a maximum?

14. If  $y = \phi(x)$  be the equation of a curve, what is the geometrical equivalent of  $\int_{\phi}^{b} (x) dx$ ?

Prove that the area of the curve  $x^2 + a^{\frac{8}{5}}y^{\frac{2}{5}} = a^2$  is five-eighths of the circle whose radius is a.

15. Write down the equation to a plane passing through two given points and the intersection of three given planes.

### SECOND PAPER.

1. Prove that if

$$-a_2+a_3-a_5=a_2a_3a_5, \quad -a_4+a_5-a_1=a_4a_5a_1, \quad -a_6+a_1-a_3=a_6a_1a_3.$$
 then

$$a_2a_4a_6+a_2a_3a_5+a_4a_5a_1+a_6a_1a_3=\mathbf{0.}$$

2. Prove that

we that 
$$1^4 + 2^4 + 3^4 + \ldots + (a+1)^4 = \frac{a^5 - a}{5} - \frac{a^4 - a}{4} + \frac{a^3 - a}{3},$$

$$1^3 + 2^3 + 3^3 + \ldots + (a-1)^3 = \frac{a^4 - a}{4} - \frac{3}{2} \frac{a^3 - a}{3} + \frac{1}{2} \frac{a^2 - 1}{2}.$$

Find the law of the formation of the right-hand members.

3. Establish the identity—

 $\tan \alpha \tan(\beta - \gamma) \tan(\gamma - \alpha) + \tan \alpha \tan(\gamma - \alpha) \tan \gamma + \tan(\beta - \gamma) \tan \beta \tan \gamma = \tan \beta \tan \alpha \tan(\gamma - \alpha) + \tan \beta \tan \alpha \tan(\beta - \gamma) + \tan \beta \tan(\beta - \gamma) \tan(\gamma - \alpha).$ 

4. What is the locus of the equation

$$(r_1 + a)^2 - r_2^2 = (2a)^2$$

where  $r_1$ ,  $r_2$  are the radii vectores with respect to two poles separated by a distance a?

5. A straight line AB is divided in C and D so that  $AC = CD = \frac{1}{6}AB$ ; CPE is drawn perpendicular and PF parallel to AB; PA, PB, PD are joined, and from C a perpendicular to PB is drawn, meeting PB, PD, PA, PF in P<sub>1</sub>, P<sub>2</sub>, P<sub>3</sub>, P<sub>4</sub> respectively. Show that as P moves in the straight line CE, P<sub>1</sub> describes a circle, P<sub>2</sub> an ellipse, P<sub>3</sub> a hyperbola, and P<sub>4</sub> a parabola.

6. Find the expansion of  $\tanh^{-1}x$  according to ascending powers of x,

it being defined that

$$sinh x = \frac{1}{2}(e^x - e^{-x}),$$
 $cosh x = \frac{1}{2}(e^x + e^{-x}).$ 

7. Find the equation of the common tangent to the parabolas  $(y^2+4a^2)^2=16a^2x^2$ .

8. Find the petal of the curve  $r^2\cos 2\theta = a^2$ , and give a tracing of both.

Note any other relation between them.

9. If 
$$\phi(x) - \left(1 + \frac{x}{1}\right) \left(1 + \frac{x}{2}\right)^{\frac{1}{2}} \left(1 + \frac{x}{3}\right)^{\frac{1}{3}} \dots$$
, prove that 
$$\log \phi(x) = \int_0^x \frac{dx}{x} \int_0^1 \frac{1 - t^x}{1 - t} dt.$$

10. Show that the intersection of two spheres is a circumference whose plane is perpendicular to the line of centres.

11. Find the angle between the two generating lines of the hyperboloid

$$b^2c^2x^2 + a^2c^2y^2 - a^2b^2z^2 = a^2b^2c^2$$

at the point  $\alpha \beta \gamma$ .

12. Integrate the equations-

(a) 
$$(1-x^2)\frac{\partial y}{\partial x} + xy - a = 0$$
.  
(b)  $\left(\frac{dy}{dx}\right)^2 + x\frac{dy}{dx} - y = 0$ .

Note the singular solution of the latter.

13. If a quadrilateral be inscribed in a circle, the square on its third diagonal is equal to the sum of the squares on the tangents from its extremities.

### NATURAL PHILOSOPHY.

### DYNAMICS.

## FIRST PAPER.

- 1. Prove that any system of forces can always be reduced to a force and a couple, the axis of the latter being parallel to the direction of the former.
- 2. Show generally how to find the centre of inertia of the area of a closed curve whose equation is given (1) in x-and-y coordinates, (2) in in  $\theta$ -and-r coordinates,
- 3. Find the centre of inertia (1) of the cardioid  $r=2a\cos^2\frac{1}{2}\theta$ , (2) of one of the halves of it made by the line of symmetrical division.
- 4. Define the potential at a point, a line of force, and an equipotential surface.
- 5. Find the attraction of a circular arc and its chord on a particle situated at the centre of the circle,
- 6. A particle is attracted by the three sides of a triangle and is in equilibrium. Find its position.
- 7. Show that if a finite string, uniform in density and thickness, hang freely over any two smooth pegs, the extremities of the string will be in the same horizontal line when the string is so placed as to be in equilibrium. Is the equilibrium stable or unstable?
- 8. Two points, P and P', move with the same uniform velocity, P' describing a straight line and P moving continuously towards P'. Taking the path of P' for the axis of x, find the equation of the path of P.

9. Prove that if the radius vector of a particle moving in a plane sweep out equal areas in equal times, the resultant force on the particle is directed towards the pole.

10. In a particular case of motion the hodograph is found to be a circle described with velocity inversely proportional to distance from a point in its circumference. Determine the path of the moving particle.

11. State Fourier's theorem for the expression of an arbitrary function,

and give an illustration of its use.

12. Find the maximum force in a case of simple harmonic motion in which the moving mass is a gramme, the range on each side of the middle

position 10 centimetres, and the period 1/300 second.

13. Find the force per gramme of the earth's mass towards the sun. supposing the earth's motion to be in a circle of radius  $1.473 \times 10^{13}$  centimetres.

### SECOND PAPER.

1. Define moment of inertia. Prove that the moment of inertia of a body about any axis is equal to the moment about a parallel axis through the centre of inertia, together with the moment about the first named axis of a mass equal to the whole mass of the body at the centre of inertia.

2. Find the moment of inertia of a uniform straight bar about an axis through one end of the bar and perpendicular to the length of the bar.

3. Investigate the motion of the simple pendulum, and apply your investigation to the compound pendulum, assuming that the angular acceleration of a body about any axis is equal to the moment of the forces about the axis, divided by the moment of inertia of the body about the axis. Prove the principle of convertibility of the centres of suspension and oscillation.

4. Define and explain "Carnot's function." Show that if absolute temperature be defined as inversely proportional to Carnot's function, differences of temperature so defined agree approximately with differences reckoned by the conventional standard afforded by the air thermometer. Show how to make the unit of the absolute scale approximately equal to one degree centigrade.

5. State Ohm's Law. Investigate the relation between the parts of

Wheatson's Bridge when there is a "balance,"

6. Give an algebraic expression for the potential and for the components of force, at any point (x, y), due to an infinitely thin uniformly and longitudinally magnetized bar of strength m and length 2a, having its middle point at O and its length in the direction X'OX.

7. Prove that the values of the resultant forces of an infinitely small magnet, at different points in one line through its centre, are inversely

as the cubes of their distances.

8. Give a drawing illustrating the direction of the resultant force at different points in the neighbourhood of an infinitely small magnet.

9. Compare the magnetic forces of a uniformly and longitudinally magnetized straight bar ended by planes perpendicular to its length and of an electromagnetic solenoid of the same shape. Contrast the case of points in an infinitely small longitudinal hole in the former, and in

the hollow space between the ends of the latter.

10. Prove that the velocity of a wave travelling along a stretched cord is equal to that acquired by a body in falling from a height equal to half the length of cord whose weight is equal to the stretching force. Hence find the time of vibration of a cord stretched between two fixed points vibrating in its gravest fundamental mode.

### II.—FOR LL.B. AND B.L.

## LAW OF SCOTLAND.

1. Give and explain Bell's classification of contracts, with an example

of each class.

2. A villa and garden were sold in February, 1880, by exchange of holograph missives, with entry at Whitsunday. In the month of March a sewer burst and carried away a large portion of the garden. (1) Is the purchaser entitled to retain part of the price in respect of the damage? (2) The seller having repaired the damage, is he entitled to recover the expense thereof from the purchaser?

3. What is the difference between an open and a valued marine policy? A person having effected two valued policies for the full value of the same cargo, with different brokers, what are the respective rights of the insured, and the two sets of underwriters, in the event of a total loss?

4. How far is the receipt of profits a test of partnership? What classes of persons may receive a share of profits without being liable as

partners?

5. What is the liability of an inn-keeper (1) under the Edict and (2) by statute? Is robbery or accidental fire an answer to a claim under the Edict?

6. "Assignatus utitur jure auctoris." Explain this maxim and show how it is applied (1) in the law of bills; (2) in the case of a life policy effected by fraud and transferred to a bona fide holder for value.

7. What is a del credere guarantee? Show whether or not such guarantees fall within the scope of the 7th section of the Mercantile Law

Amendment Act (Scotland) 1856.

- 8. In what leases does there exist an implied power to assign and sublet, and in what leases does such a power not exist? What is the effect of a clause "excluding assignees and sub-tenants, unless approved by the landlord"?
- 9. Three persons each possess a flat of a tenement consisting of two storeys and attics. Is the proprietor of the attics entitled to raise the roof so as to make it a house of three storeys?
- 10. X had three younger brothers, A, B, and C, and a sister D. These all predeceased him intestate: A, the eldest, leaving two daughters and a son of a third; B, the next, leaving one son; C, the next, leaving four sons; and D, the youngest, five. X now dies unmarried and intestate,

leaving £10,000 of heritage and £140,000 of moveables. B's son survived X, but died intestate, and without issue, survived by his mother. Draw up one or more (if competent) schemes of division of the estate.

11. A person takes a through railway ticket from London to Glasgow. The carriages used are through ones supplied by an English Company. While the train is in Scotland, drawn by an engine of a Scotch Company. and in charge of a Scotch driver, an accident happens through the breaking of an axle in consequence of a defect which the servants of the English Company should have discovered. (1) The passenger being injured, can he recover from the Scotch Company. (2) If he were killed can (a) his father, or (b) his brother recover damages from the Scotch

12. Explain the phrases—præceptio hæreditatis: heir female: assyth-

ment: urban tenement: dead freight.

Company? Give reasons.

### CIVIL LAW.

1. Give the form of an action in the various epochs of Roman law.

2. Explain edictum perpetuum, substitutio pupillaris, jus in re, and res mancipi.

3. What was capitis deminutio?

4. In what ways did the imperial will affect Roman law?

5. What were the three juris praecepta?6. How was a title acquired by prescription under the legislation of Justinian? Mention one or two instances in which prescription could give no right.

7. What was the rule of law in regard to a legatum rei alienae?

8. If a borrowed article was destroyed while in the possession of the borrower, to what extent had the lender a remedy against him?

9. What was a prædial servitude, and what were the four rural prædial servitudes?

10. Explain partus ventrem sequitur.

11. What was a stipulation, and to what actions did it give rise?

12. Explain traditionibus non nudis pactis dominia transferuntur. What elements did *traditio* imply?

## CONVEYANCING.

1. B, who was infeft, destined his estate thus:—to his daughter C. and her husband D, and the survivor of them, in liferent, for liferent use only; and the heir male of the marriage, whom failing the heir female of the marriage, in fee. No infeftment followed on the conveyance. The marriage having been dissolved by the death of D, without an heir male, how do you complete the title of the heir female, E?

2. B, who held the lands of X under an entail bearing to have been granted in terms of the Act of 1685, and with a destination expressed in favour of B and the heirs male of his body, whom failing of C and the heirs male of his body, executed a disentail thereof under and by virtue of the Act of 1848; and died lately, intestate, leaving no sons, but a daughter D. The property is now claimed (a) by D, as his nearest heir: and (b) by E, as only lawful son of C, who predeceased B. To which of the claimants does it fall to be adjudged? Give reasons for your opinion.

3. B, who was infeft, disponed thus:—to C, D, and E, and the survivors and survivor of them, in liferent, and the children of F in fee. F's children are G. H. and I. How may you complete their title—

(a) On the assumption that no infeftment followed on the conveyance. and that all the liferenters are dead ;

(b) On the assumption that infeftment followed in the liferent alone. and that all the liferenters are alive:

(c) On the assumption that no infeftment followed on the conveyance,

and that all the liferenters are alive;

(d) On the assumption that infeftment followed in the full terms of the dispositive clause, and that all the liferenters are alive: and (e) On the assumption that infeftment followed in the full terms of the dispositive clause, and that all the liferenters are dead?

4. B, who is infeft, dispones, mortis causâ and specially, thus:—to C in liferent, for her liferent use only, and her heirs whomsoever in fee. No infeftment follows on the conveyance. C dies without issue, but leaving a special settlement in favour of D; and thereupon the property is claimed (a) by O, quâ heir whomsoever of C; and (b) by D, quâ special disponee of C. To which of the claimants does the property fall to be adjudged? Give reasons for your opinion.

5. B. who was infeft, disponed thus:—to C in liferent, and to her children, natis vel nascituris, equally among them, in fee. The only child of C was D; and D died, survived by C, and leaving a son F, and two daughters G and H. C having now died, the property is claimed (a) by F to the extent of the entirety; and (b) by G and H each to the extent of one-third pro indiviso. What are the rights of the respective claim-

ants? Give reasons for your opinion.

6. B, who is infeft, dispones thus, mortis causâ:—to the heirs of my body; whom failing to C, and the heirs of his body; whom failing to D, and his heirs whomsoever; and he dies, without heirs of his body, predeceased by C, who died without issue, and also by D, but survived by E, only son of D. How, and in what character, do you complete the

title of E?

7. B disponed thus, mortis causâ; to my four sons, C, D, E, and F, and the survivors and survivor of them—the issue, however, of any of them who may have deceased being entitled to the share which their parent would have taken on survivance. B died, predeceased by C, but survived by D, E, and F, and by O, the only child of C. Then F died in minority, and without issue. In addition to the share intended for his father, O now claims one-third of F's share, but this is resisted by D and E, who claim the whole of the share. Give your opinion on this case, with reasons.

8. (a) B, who is infeft in the lands of X, dispones them thus:—to myself in liferent, for liferent use only, and my children, natis et nascituris, in fee; and infeftment is given in the liferent alone. Thereafter he purchases the lands of Y, and takes the conveyance thus -to himself in liferent, for liferent use only, and his children in fee; and infeftment is given in the liferent only. (c) Then he purchases the lands of Z, and takes the conveyance thus—to himself in liferent, and his children, born and to be born, in fee, and infeftment is given in the full terms of the dispositive clause. (d) Thereafter his kinsman, C, settles his lands of O thus—on B in liferent, for liferent use only, and his children, born and that may be born, equally among them in fee; and infeftment is given in the liferent only. B having become bankrupt, what, as regards the several properties of X, Y, Z, and O, are the rights of (a) his children, and (b) his creditors? Give reasons for your opinions.

Note.—You are to assume that B was perfectly solvent at the date of the respective conveyances.

- 9. B, who was infeft, dies leaving a special settlement expressed thus:
  —to C in liferent, for liferent use only, and D and E, children already born to her, and any other children that may be born to her, all equally among them in fee. There are three post-nati, F, G, and H; and C dies. No infeftment follows in favour of D and E. D dies in 1879, intestate and without issue; and E dies in 1880, also intestate and without issue. (a) In whom is the fiduciary fee? (b) In what shares or proportions do F, G, and H respectively take? And (c) how do you complete the title of F, G, and H?
- 10. B, whose wife was L, purchased a property O, and took the conveyance thus—to himself in liferent, and to C and D, children already born to him, and any other children that might be born to him, all equally among them in fee. There were no other children of the marriage with L.

C and D died in pupillarity, whereupon their father completed a title in his own person as their nearest heir, and that by special service, and infeftment upon the extract decree;

L having died, B married a second time, his wife being M; and he died recently, survived (a) by M; and (b) by S and T, the only issue of his marriage with her:

By his disposition and settlement he conveyed to M, absolutely, his whole means and estate, and specially the property of O:

In the foregoing circumstances you are requested to state (a) the respective rights of M and of her two children, S and T; and (b) how a title may be completed in the persons of S and T to the property of O.

- 11. B dies infeft and confirmed in (a) the lands of X, held of the Crown; and (b) the lands of Y, Z, and O, all held of subject superiors. The trustees under his settlement being, of course, singular successors, you are requested to state what composition they fall to pay
  - (a) In the case of the lands of X;
  - (b) In the case of the lands of Y, the teinds being in the hands of the superior;
  - (c) In the case of the lands of Z, the teinds being in the hands of a third party; and
  - (d) In the case of the lands of O, the teinds being in the hands of the vassals (the trustees), and held by them upon a title other than that of the property.

### PUBLIC LAW.

Note. -Only four questions under each branch are to be attempted.

#### I. PHILOSOPHY AND HISTORY OF LAW.

- 1. "The Laws of a State must spring from the Universal Will, but need not on that account be the Will of All." Explain and examine this statement.
- 2. Examine Austin's view that what are commonly called Constitutional Law and International Law do not belong to the sphere of Law proper.

3. On what ground does the State prohibit immoral exhibitions?

4. Show whether or not the progress of International Law has been from "Status" to "Contract."

5. Indicate any traces of the ancient notion of the Family in the

modern Law of Succession in Scotland.

6. Point out briefly the relation between the history of the idea of Crime and that of Civilization.

### II. PUBLIC INTERNATIONAL LAW.

7. Give a short history of the name "Consul," and describe generally his functions in a modern Christian State.

8. Distinguish between Nationality, Domicile proper, and Trade Domicile, and point out the practical application of each of those ideas.

9. What is the Right of Search? Does it exist to any extent during

peace?

10. Distinguish between Prize and Booty. What are the general

rules as to joint capture of prize?

11. State the three rules of the Treaty of Washington; and mention the principal points of the interpretation put upon them by the Geneva Arbitrators.

12. Examine the authorities on the question whether it is lawful for the subjects of a neutral state to lend money to a belligerent.

#### III. PRIVATE INTERNATIONAL LAW.

13. What is the doctrine of Moorhouse v. Lord?

What is the domicile of a Scotchman who goes to the United States to avoid his creditors, and dies there after a residence of 10 years?

14. A domiciled Englishman marries in Glasgow the mother of his own illegitimate child. The mother has never been in England. What effect has the marriage on the domicile of (1) the wife, and (2) the child? Give reasons.

15. A bill is drawn in New York upon a merchant in Glasgow, who fails to accept. The legal rate of interest being different in the two countries, state, with reasons, what law regulates the rate payable by the drawer if he were sued in Scotland.

16. A person purchases, in a country where the Roman Law prevails, at a nominal price, a debt due there. Both seller and purchaser are domiciled in that country. Can the seller plead the Lex Anastasiana in Scotland? Give reasons.

17. Can a person domiciled in a country where gambling debts are legally recoverable sue a Scotchman for such a debt in Scotland, if it has been won in the former country?

18. Mention any points not recognised as law in Great Britain, which, in your opinion, should be embodied in a Convention dealing with the

subject of Private International Law.

## CONSTITUTIONAL LAW AND HISTORY.

- 1. What was the Star Chamber, and in whose reign did it take its rise?
- 2. Narrate shortly the events that led to the Civil War in the time of Charles I.
- 3. To what extent did the Treaty of Union provide for the preservation of the national rights of Scotland?

4. What was the *curia regis*, and what is the Cabinet?

5. What is the course of procedure in an impeachment? what effect has the dissolution of Parliament on it? and in what instances did the point occur?

6. How is a Protestant succession secured for the throne?

7. What remedies have a Scotchman and Englishman respectively

against illegal imprisonment?

8. Of how many members does the House of Commons consist? how many are contributed by Scotland? what was the leading change made in regard to the burgh franchise by the Reform Act of 1868? and what new class of seats did it confer on Scotland?

9. What is meant by privilege of Parliament? Illustrate your answer by reference to the case of Stockdale v. Hansard. To what alterations

in the law did it lead?

10. What is the source of the appellate jurisdiction of the House of Lords and of the Judicial Committee of the Privy Council?

11. What constitutional principle underlies the maxim that the King

can do no wrong?

12. What is meant by the prerogative of the Crown; and what are its principal branches?

## FORENSIC MEDICINE.

1. In a case of poisoning what evidence may be obtained from the symptoms observed during life?

2. What appearances would be characteristic of Rape: (a) in the case of a child aged 6 years; (b) in the case of a woman aged 25 years?

3. What information may be derived from a microscopic examination of stains supposed to be due to blood?

4. Define the term "wound." How may a wound inflicted 12 hours before death be distinguished from one produced 3 hours after death?

### I.-BURSARY AND PRELIMINARY EXAMINATION.

NOVEMBER, 1880.

## LATIN.

Translate into English :-

1. Passage from Horace, Satires, 20 lines.

2. Passage from Cæsar, 25 lines.

### FOR LATIN PROSE.

Translate into Latin Prose :-

The lions once were lazy: and some of them whose teeth were not so white as they used to be, but who roared as bravely as ever, said to the others; "Why, brother lions, do we lead this wretched toilsome lifeup early, to lair late; hunting alone over the sandy plains from morning till night, and earning but a scanty living or too much; now starved, now gorged; and at all times some of us starving while others are gorging? Let us no more be unsociable, but let all the great beasts of the forest hunt together in packs; so shall our cares be divided equally, and our prey the same." The other lions roared assent. The tigers also listened favourably to this counsel, and all the young ones much approved it: for though they loved blood they were fond of play too.

## LATIN GRAMMAR.

- 1. Decline throughout—senex, supellex, vas (masc.), vas (neut.), carcer.
- 2. Give the comparative and superlative of vetus, dubius, utilis, facilis, nuper.
- 3. Give the second pers. pl. of (1) the pf. indic. act.; (2) the pres. subj. pass.; (3) the fut. indic. pass.; (4) the pf. subj. pass.; (5) the imperat. pass. of mordeo, acquiro, facio, reperio, fingo.

4. Explain—predicate, subjective genitive, inceptive verb, caesura, asyndeton. Give examples of each.

5. Translate into Latin :-

(1) He came to the throne on July 19, 1418, A.D.

(2) He is not the man to swear falsely.

(3) There is no doubt he will ask who it was who said it.

(4) He announced his intention of leaving Rome for Athens at once.

(5) Who do men say that I am?

6. Turn into Oratio Recta:—Samnites, concilio Etruscorum coacto, dicunt se multos per annos cum Romanis dimicasse: petisse pacem, quum bellum tolerare non possent: rebellasse, quod pax servientibus gravior, quam liberis bellum, esset: unam sibi spem reliquam in Etruscis restare. Samnitem illis exercitum paratum, instructum armis, stipendio, venisse: statim secuturos, vel si ad ipsam Romam oppugnandam ducant.

### GREEK.

Translate into English-

(1) Passage from Homer, 25 lines.

(2) Passage from Xenophon, 20 lines.

### GREEK GRAMMAR.

1. Decline in singular, dual, and plural—δ μέγας ἡγεμών, ἡ κρείσσων ναθε, τὸ πλατύ τείχος.

2. Write down the voice, mood, tense, number, person, and 1st singular present indicative active of - γένοιντο, έλησθε, είχομεν, στήτω. έδοσαν, πεσέτω, έγνώκασι, άγάγωμεν, τιμώη.

3. Correct these sentences :-

(1) έλθων ἀπὸ τὴν πόλιν ἔλαβεν ὅσα ἃν βούλεται.

(2) εί ταῦτα οὐ ποιήσης, οὐκ ἔσσει ἄξιος τιμῆ.

(3) οί πολλοί των ανθρώπων θανήσονται πρίν ζδωσι ταῦτα πραγμένα. 4. Translate into Greek :-

(1) We know who this man is.

(2) Five gifts are better than three. (3) Do not say anything unless you mean to do it.

(4) These men think that they are good.

## MATHEMATICS.

### GEOMETRY.

1. The square on the hypotenuse of a right-angled triangle is equal to the sum of the squares on its sides. Show how to find the length of the perpendicular when the two sides are given in magnitude.

2. Show that if a straight line be divided equally, and also unequally, the rectangle under the unequal parts, together with the square of the line between the points of section, is equal to the square on half the line.

3. Show that if one side of a triangle be bisected, and the opposite vertex joined with the point of bisection, twice the square on the joining line, together with half the square on the base, is equal to the sum of the squares on the two sides. Show that three times the sum of the squares on the sides is equal to four times the sum of the squares on the three such bisectors.

4. Show how to inscribe a circle in a given triangle, and another touching one side externally and the others internally, and prove that a circle can be described through the two centres and the two ends of the side which is touched externally.

5. Angles in the same segment of a circle are equal to each other. Find the locus of the intersection of the perpendiculars of a triangle when the base and vertical angle are known.

6. If two triangles are equiangular the sides which the equal angles subtend are proportionals.

7. Describe a circle passing through two given points and touching a

given circle. 8. If a straight line be divided into any number of equal parts, and lines drawn to these from a given point, any parallel drawn to the given

line will be cut in equal parts by the lines drawn to the given point. 9. Show how to draw common tangents to two circles.

#### ALGEBRA.

1. Find the G. C. M. of

 $6x^4 + x^3 + x(2a-1) - a$  and  $4x^3 - bx(x-a) - 4x - 3(a-1)$ .

Two men start together to walk round a circular course, one taking 75 minutes to the round, the other 90. When will they be together again at the starting-point, and when at the point opposite to it?

2. Simplify—

(a) 
$$\frac{1}{2x + \frac{1}{1 + \frac{2x + 1}{3 - x}}}$$
(b) 
$$\frac{\sqrt{x + 2a} - \sqrt{x - 2a}}{\sqrt{x - 2a} + \sqrt{x - 2a}} + \frac{\sqrt{x + 2a} + \sqrt{x - 2a}}{\sqrt{x + 2a} - \sqrt{x - 2a}}$$
(c) 
$$(a^4 + 2a^3 - a + \frac{1}{4})$$

3. Find the quadratic equation whose roots are  $-\frac{1}{2}$  and  $\frac{1}{3}$ .

Solve the equations—

(a) 
$$\sqrt{x} - 5 = \frac{375 - 9x}{\sqrt{x} + 5}$$
.  
(b)  $\frac{x}{x - 2} - \frac{x - 8}{3x - 16} = 1$ .  
(c)  $\frac{2}{x} + \frac{3}{y} = \frac{13}{12}$ .  
 $\frac{x}{2} \left(\frac{x}{2} - 1\right) + \frac{y}{3} \left(\frac{y}{3} - 1\right) = 6\frac{4}{9}$ .  
(d)  $x(y + z) = a$ ,  $y(z + x) = b$ ,  $z(x + y) = c$ .

4. Sum to n terms the series—

(a) 2+5+8+11, &c. (b) 3-9+27, &c.

If A, G, H be the Arithmetical, Geometrical, and Harmonic means of two quantities, prove that A > G > H.

5. Find the number of permutations of n things taken r together.

The number of combinations of n things taken four together is to the number of combinations taken two together as 15:2. Find n.

6. Prove the binomial theorem for a positive integral exponent.

Write down the coefficient of  $x^3$  in  $\left(3x^2 - \frac{2}{x}\right)^6$ , also the term independent of x, and the sum of the coefficients.

7. Define circular measure; investigate the value of the unit.

Express the angle of a regular polygon of n sides in circular measure; find at what times between 3 and 4 the angle between the hands of a clock is unity in circular measure.

8. Prove geometrically,  $\cos (A + B) = \cos A \cos B - \sin A \sin B$ .

Prove the identities

(1) 
$$\cos A = \cos^4 \frac{A}{2} - \sin^4 \frac{A}{2}$$
.

(2) 
$$\frac{\sin 3A + \sin 5A}{\sin A + \sin 3A} = 2 \cos 2A$$
.

(3)  $\sin 75^{\circ} - \sin 15^{\circ} = \cos 105^{\circ} + \cos 15^{\circ}$ .

- Find the cosine of an angle of a triangle in terms of the sides.
   If a=b+c/2, prove that cot Bct C/Bct C=2.
- 10. Find the conditions necessary that the fraction  $\frac{Ax^2 + Bx + C}{A'x^2 + B'x + C'}$  should be independent of x.

#### ENGLISH LITERATURE.

Composition of an Essay on a theme prescribed at the time.

#### IV.-CLASS EXAMINATIONS.

#### JUNIOR HUMANITY CLASS.

(Examination referred to at page 41.)

- 1. Decline in full the singular of—grex, fluctus, facies; and the plural of—tellus, socer, eques, iter.
- 2. Decline throughout, both in singular and plural and in all genders—alter, teres, sapiens, plus.
  - 3. Give the comparative and superlative of—saepe, diu, vetus, nequam,
- magnificus, gracilis.

  4. Write down the 3rd person sing. pluperfect indic. act., the 2nd sing. impft. subj. act., the pres. infin. act., and the future infin. pass. of
- sing, impt. subj. act., the pres. infin. act., and the future infin. pass. of the following verbs:—lino, venio, figo, parco, vincio, audeo, veto, haurio. 5. Translate—Scripsi ut scias, scripsi ut scires—vereor ut veniat,
- 5. I ranslate—Scripsi at seas, scripsi at sense—vereor at venat, vereor ne veniat; and correct the following sentences:—spero mox redire, permitter facere quod volo.
  - 6. Translate into Latin—
  - (1) Tell me who did it.
  - (2) He said that his father had done it.
  - (3) He is too wise to go to Rome to learn the truth.(4) If you had come sooner it would have been well.
- (5) He is so like his brother that some people prefer the one, some the other.

# JUNIOR GREEK CLASS.

# FIRST EXAMINATION, 5TH FEBRUARY, 1881.

1. Assign (1) case, (2) number, (3) gender, (4) declension (or subdivision of declension), to ὅμφακας, ταῶς, κάλλει, γέρουσιν, ὅρους, μυλῶνα, ἀγύρταις, πορφυρίδος, ὅφεως, φαρμακέα, ἀστέρος, ὁδούς, ἀνώγεως.

2. State what is peculiar in the declension of each of the following nouns:—γυνή, νίος, χείρ, ὕδωρ, πέλεκυς, ὄρνις, κύων, Ζεύς.

3. After each of these words write its stem: —νεανίας, λελυκώς, φύλαξ, είμι, εὐγενής, εἰμί, λαμπάς, λυθείς, σωμα, όδούς, τάλας, ἀγών.

4. Decline the following: - μέλας, οὖτος, διδούς.

5. Decline the following:—γλῶσσα, πολίτης, νοῦς, γένος, πόλις, ἰερεύς, φλέψ, σύ.

6. Under each of the following, write its Comparative and its Superlative: - μάκαρ, ἀληθής, σοφός, χαριείς, ἐχθρός, πόλυς, καλός, εὐδαίμων.

7. After each of the following, write down its Voice, Mood, Tense, Number, Person, and 1st Person Present Indicative Active:—δεικνότω, εθέμεθα, τιθεῖτε, ἵστασαν, ἴσμεν, τιμάσθων, δῷς, ἐνηλλάγη, ἐπέστησε, κατένεγκε, εἰχες, ὀνήσεις, καθήσομεν, λάβοιεν.

8. Go through the Tense of each of the following:—"ίημι, εἶμι, ἐτίμων,

στηθι, δουλούμαι, ήδειν.

9. After each of the fellowing write the Verbal Stem, explaining how the Present Stem has been formed from it:—βάπτω, ταράσσω, λείπω, κράζω, φαίνω, βάλλω.

10. State the rules for the formation of the Future Tense-stem. Give

examples.

11. (1) What classes of verbs are represented by πίνω, λαμβάνω, ικνέομαι, εὐρίσκω, δοκέω? (2) Give some instances in which different

tenses of a verb are taken from different verbal stems.

12. (a) Translate into English—(1)λιμώττοντες οὶ πένητες ἤτουν τοὺς πολίτας τροφήν οἱ δὲ εἶπον, εἰ ζητεῖτε φαγεῖν καὶ πιεῖν, διὰ τί οὺ θέλετε πονεῖν; (2) εἰ μίαν τιμὴν νέμοιμεν τοῖς ἀμείνοσι καὶ τοῖς χείροσιν, οὐκ ἄν δίκαια ποιοῖμεν, οὐδὲ τῆς πόλεως ἄξια; (3) ὁ βασιλεὺς κατηγωνίσατο ἀν αὐτούς, εἰ μὴ πολλούς συμμάχους εὖρον τούτους δὲ λαβόντες οὺ μόνον ἐσώθησαν ἀλλὰ καὶ ἀπώλεσαν τὸν ἀπειλοῦντα.

(b) Translate into Greek—(1) Let the sick man cease disputing; for he must hear the words of those who are able to heal him; (2) They would not deny that we are now stronger than they; but we have not forgotten that formerly we reaped some evil from the contest; (3) The two brothers had all other things alike; but it was easy to distinguish them by the

traces of the wounds on the face of the second.

### MIDDLE GREEK CLASS, 1880-81.

# FIRST EXAMINATION, 20TH JANUARY, 1881.

Part I. Passages for translation from Xenophon, Anabasis, Book III.

Part II. Questions—1. Put into Greek—(1) they crossed by fifties: (2) we have two horses apiece: (3) he accuses us of this: (4) ye came on my account: (5) he fell into their power: (6) they do not live in our time: (7) he rode from under the trees to our side: (8) the stones lie close to the wall.

2. (i) State briefly how the narrative of the Anabasis is divided among the seven Books. (ii) Show the historical importance of the expedition. (iii) What light is thrown in Book III. on the date of Xenophon's birth?

3. Illustrate from this Book the Greek belief as to the signs by which

the divine will is revealed to men.

- 4. (i) Where were Larissa, Susa, Ecbatana? Under what name, and where, is each noticed in the Bible? (ii) Assign boundaries to Media and Armenia?
- III. 1. Give Modern Greek equivalents for the following (with short notes, where you think them requisite):—(i)  $\dot{\epsilon}\phi o\beta \epsilon \tilde{\iota}\tau o \ \mu \dot{\eta}$  οὐ δύναιτο  $\dot{\epsilon}\xi \epsilon \lambda \theta \epsilon \tilde{\iota}\nu$ . (ii)  $\pi \rho \dot{\delta} s \tau \tilde{\omega} v \theta \epsilon \tilde{\omega} v \ \mu \dot{\eta}$  ἀναμένωμεν. (iii) αὐτὸς κρίνας ἰτέον ε $\tilde{\iota}$ ναι.

(iv) ἀναμνήσω ὑμᾶς ἴνα εἰδῆτε ὡς ἀγαθοῖς ὑμῖν προσήκει εἶναι. (v) ταῦτ' ἀν ἐποίει, εἰ ἐώρα ἡμᾶς. (vi) οὐ δυνήσονται μένειν.

2. What substitutes are commonly employed in Modern Greek for γάρ.

οὖν, ἔτι, νῦν, ἐνθάδε, ἀεί, ὅς, ἐμαυτόν, πορεύομαι, οἶδα?

3. (i) ἐνίκησαν πρὶν ἔπεσον. How does this violate Modern Greek usage? Correct also (ii) πρέπει νὰ οἱ πολλοὶ τοῦτο κάμωσι. (iii) ὁ δὲν μαχόμενὸς ἐστι δειλός.

#### SENIOR GREEK CLASS.

FIRST EXAMINATION, WEDNESDAY, FEB. 2, 1881. 3-6 P.M.

I. Translate, with short notes on points of (1) language, (2) archæology, (3) history and chronology:—Attic Orators. Selections.

II. Suggest corrections of the text in the following passages (which

need not be translated) :-

- 1. οδ δή και μάλιστ' έμαυτὸν ἀπωλοφυράμην· ὅστις τοῦτο μὲν...κακὰ εἶχον, τοῦτο δὲ...ἀπολοίμην.
- 2. είλομεθα...στρατεύεσθαι...άντι τοῦ μένοντας οίκοι συμμάχους έχειν Συρακοσίους.

3. οὐχ ὅπως ἴνα ᾿Αθηναίων τινὰ ποιήσομεν διενοούμεθα.

4. φιλονεικείν μέν έστιν εὖ πραττόντων, γνῶναι δὲ τὰ βέλτιστα τῶν αὐτῶν.

5. μικρον διαλεγόμενοι καὶ κοσμίως ἀπερχόμενοι.

6. ἐν τῆ ὀδῷ σώζοντα αὐτὸν καὶ τὰ τούτοις ἐψηφισμένα δν συλλαβών ἀπήγαγεν.

7. των ὀνειδων μεταδιδόντες εύνους ῷοντο είναι.

III. 1.  $\dot{\alpha}\pi\dot{\epsilon}\kappa\tau\dot{\epsilon}\nu\alpha\nu$   $\dot{\epsilon}\nu$   $\tau\hat{\eta}$   $\pi\rho o\phi\dot{\alpha}\sigma\dot{\epsilon}\iota$   $\tau\alpha\dot{\nu}\tau\eta$ . Show that  $\dot{\epsilon}\nu$  need not be altered to  $\dot{\epsilon}\pi\dot{\iota}$ .

2. τον 'Αγόρατον... ήγγυωντο και ώμολόγουν παρέξειν είς την Βουλήν. Why is παρέξειν preferable to Cobet's emendation παράξειν?

3. εἶτα τοῖς τῶν ὑμῶν ὑπαρχόντων ἐρῶσι τίς ἔσται σωτηρία τῷ πόλει; translate these words. What change has been proposed?

4. εκπέμπουσι γὰρ εἰς τὴν βουλὴν Θεόκριτον. Some would read εἰσπέμ-

- πουσι. Can ἐκπέμπουσι be defended?
  5. τὰ τείχη καὶ ναῦς ἐῶντες κεκτῆσθαι. Can the absence of τὰς be
- explained? 

  IV. 1. οὐ περὶ τοῦ σῶσαι τὰς ᾿Αθήνας ὁ κίνδυνος ἡν αὐτοῖς μᾶλλον ἡ περὶ

τοῦ μηδὲ αὐτοὺς σωθῆναι. Explain the construction.

2. χρη ..άνθρωπίνως εκλογίζεσθαι, ώσπερ αν αὐτὸν ὅντα ἐν τῆ συμφορά. Account for the ἄν.

3. χρὴ ἀναμνεσθέντας τὰ γεγενημένα καλῶς βουλεύσασθαι. Translate these words. Illustrate the force of the participle.

4. (α) όσα οὐδεπώποτε Φοντο κτήσασθαι.

5. (b) νομίζοντες...καιρὸν εἰληφέναι, καὶ...τὰ πράγματα καταστήσασθαι.

6. (c) οὐκ ἔφασαν ἐπιτρέψαι ταῦτα γενέσθαι.

Why does the agrist infinitive require the addition of  $\tilde{a}\nu$  in (b) and (c),

but not in (a)?

V. 1. Briefly explain—ἐπιγαμία—καταστάσεις ἀναπράττειν—αὶ ἐφ' ἡμῶν ὁλιγαρχίαι—τῶν ἐννέα ἀρχόντων κληροῦσθαι—ὥσπερ ἐπικλήρου τῆς συμφορᾶς ἀμφισβητεῖν—τὸ σημεῖον καθαιρεῖν—ἀφαιρεῖσθαι εἰς ἐλευθερίαν—μικρῶν ἔνεκα συμβολαίων δουλεύειν.

2. Illustrate the use of σοφιστής, φιλοσοφείν, ἀριστίνδην, ἀποδιδόναι,

άποδίδοσθαι.

# IX.—VACATION EXERCISES, &c.,

FOR SESSION 1881-82.

## CLASS OF CHURCH HISTORY.

#### VACATION READING.

1. Prize open to Students who shall enrol in the Junior Division of the class for Session 1881-82.

Examination on Eusebius' *Ecclesiastical History*, first six books.

2. Prize open to Students who shall enrol in the Senior Division of the class for Session 1881-82.

Examination on the writings of the early Apologists.

Names of competitors to be given in by the middle of November.

#### CLASSES OF ORIENTAL LANGUAGES.

### VACATION EXERCISES.

Two Prizes are offered to Students entering the Second (or Senior) Hebrew Class of Session 1881-82.

1. For the best profession in Hebrew.

2. For the best original composition in Hebrew prose of not less than twenty verses.

Two Prizes are offered to Students of the Senior Class of Session 1880-81.

1. For the best profession in Hebrew.

2. For the best examination in Hebrew Syntax and the Laws of the Accents.

# PUBLIC LAW CLASS.

A Prize is offered to students of Session 1880-81, for the best Essay on the Conduct of Great Britain as a Neutral since 1815. Essays to be posted to Mr. Miller, 140 Hope Street, Glasgow, on or before 1st December, 1881.

A Prize is offered to students of Session 1881-82, for an examination on Dyer's *Modern Europe*. The examination will take place in November, 1881. Special questions will be set on Geography and Chronology. On these subjects reference may be made to Spruner's *Historical Atlas* and Professor Nichol's *Tables of Literature and History*.

#### MORAL PHILOSOPHY CLASS.

I. Open to Students of Session 1880-81.

An Examination on Kant's Critiques of Pure and Practical Reason.

II. Open to Students of Session 1881-82.

pp. 1-266, and Zeller's Socrates and the Socratic School.

2. An Examination on Plate's Part 11: 1. An Examination on Ferrier's Lectures on Greek Philosophy,

An Examination on Plato's Republic (Jowett's or Vaughan's Translation).

#### MATHEMATICAL CLASSES.

#### VACATION EXERCISES.

Lower Junior Class of 1880-81-

Algebra-first 35 chapters of Todhunter's Euclid.

Upper Junior Class of 1880-1— Todhunter's Larger Algebra.

Senior Class of 1880-81.

Spherical Trigonometry—Todhunter's Differential Calculus.

#### LOGIC CLASS.

#### VACATION ESSAYS AND READING.

I. For Students of Session 1880-81.

#### A.—-ESSAYS.

1. The Cartesian Arguments for the Existence of Deity, with special reference to the Criticism of Kant and Hegel.

2. Hamilton's Philosophy of the Conditioned.

#### B.—READING.

1. Thomson's Outline of the Laws of Thought.

2. Descartes' Method, Meditations, and Principles of Philosophy (English Translation, with Introductory Essay). New edition of 1879.

3. Hamilton's Discussions-viz., Philosophy of the Conditioned, Philosophy of Perception, and Logic, with Appendix I., Philosophical.

A Student may take up one or more of the subjects prescribed. The Essays to be given in to the Professor on Friday, 2nd December, 1881, with sealed letter containing author's name and motto.

The Examination in Reading will take place before Christmas.

II. For students who propose to join the Class for the first time, in November, 1881, the following Reading is recommended—viz., Reid's First Essay on the Intellectual Powers, and Whately's Logic, Introduction and Analytical Outline, Book 1.

Prizes will be given for Examination in this Department, which will take place early in November.

#### GREEK CLASSES.

Open to Senior and Private Class of Session 1880-81.
 Translation into Greek Prose—Primer of Greek Literature (in Macmillan's Series), p. 87, section 34: . . . . section 35, 'highest purity.'

- II. Open to Students who shall enrol in the Senior Class of Session 1881-82.
  - 1. Translation into Greek Prose of the passage prescribed above.
  - 2. Written Examination on Herodotus, Book II., and Sophocles, *Trachiniae*. (To be held in November next.)
- III. Open to Students who shall enrol in the Middle Greek Class of 1881-82.
  - Translation into Greek Prose—Sidgwick, "Introduction to Greek Prose Composition," Exercises lii. and liii., pp. 136, 137.
  - 2. Written Examination on Xenophon, Anabasis, Book III., and Homer, Iliad, Book I.

The Exercises are to be left at the Professor's house on or before November 12, 1881. Each exercise is to bear a motto (but not the author's name), and is to be accompanied by a sealed envelope bearing the same motto, and enclosing the writer's name, with a statement that the Exercise is his unaided work. The envelope should be inscribed "Senior and Private Greek Class, Session 1880-81;" "Senior Greek Class, Session 1881-82;" or "Middle Greek Class, Session 1881-82," according to circumstances.

# HUMANITY CLASSES.

I. Open to the Senior and Private Class of 1880-81.

For the best translation into Latin Prose of The Spectator, No. 209, from the beginning, 'There are no authors,' down to 'Jupiter can bestow on man.'

- II. Open to all Students who shall enrol in the Senior Class of 1881-82.
  - For the best translation into Latin Prose of the passage prescribed above.
  - 2. For a Written Examination, to be held early in November, in Cicero's "Philippic Orations," I., III., IV. (edition by Augustus J. Wilkins: Hamilton, Adams & Co.), and Ovid's "Metamorphoses," Book I.

The Exercises to be left at the Professor's house on or before 15th November next, with sealed mottoes, and envelopes stating on the outside the standing, and in the inside the name of the writer, with a statement that the exercise is the unaided work of the Student sending it in.

# X.—ABSTRACT OF PROCEEDINGS OF THE UNIVERSITY COURT.

From 12th October, 1880, till 31st March, 1881.

The Court met on the 12th day of October, 1880. Present—the Principal in the chair, Professor Berry, Dr. Campbell, Mr. Crum, Mr. King, and Dr. Kirkwood.

Applications by the following gentlemen for recognition of their lectures

were remitted to the Senate for their report:

1. Dr. Samson Gemmell, for recognition of his lectures on Practice of Medicine.

2. Dr. Joseph Bell, for recognition of his lectures on Clinical Surgery.

3. Dr. William Craig, for recognition of his lectures on Materia Medica and Therapeutics, and of his classes of Practical Materia Medica and Practical Pharmacy.
4. Dr. Francis W. Moinet, for recognition of his lectures on Materia

Medica and Therapeutics.

5. Dr. Bryan C. Waller, for recognition of his lectures on Pathology. 6. Dr. H. Aubrey Husband, for recognition of his lectures on Medical Jurisprudence and Public Health.

7. Dr. J. O. Affleck, for recognition of his lectures on Practice of

Medicine; and

8. Dr. John Barlow, for recognition of his lectures on Institutes of Medicine.

The Court directed the proposed alterations on Ordinance No. 11, General No. 2, relating to the election of Chancellors, &c., to be com-

municated to the University Council for their consideration.

The Secretary submitted two letters from the Clerk of Senate regarding the proposed alterations of Ordinance No. 16 (Aberdeen No. 6), dated 29th June and 30th July last, the former stating that serious objections were entertained against the new proposals, and the latter forwarding an excerpt minute of Senate on the subject. The Court resolved to communicate this excerpt minute to the Aberdeen University Court, and if the proposed alterations were not departed from to forward a copy thereof to the Privy Council, as containing the observations thereon by this Court.

The Court approved of the appointment by Professor Charteris of Dr. Alexander Napier to be his Assistant in Materia Medica and Pharmacy

from 20th April last.

On the subject of the Extension of University Teaching the Court, having carefully re-considered the representation of the General Council and the relative report of the Senate now received, unanimously adopted the following minute:—The University Court, whilst sympathising with the objects indicated in the representation of the General Council, viz. "The extension generally of higher education and the more complete equipment of students intending to enter the University," and whilst they would be ready in every way competent to them to promote such objects, are of opinion that it does not fall within the limits of their statutory functions either to initiate or formally to sanction such a scheme for the institution of courses of lectures in provincial towns as that which is suggested by the General Council; and further, the Court are of opinion that, even in the event of the institution of such courses of lectures, it would not be competent for the Court either to appoint or to sanction the appointment of the lecturers.

The Court had under consideration the representation of the General Council of 23rd April, 1879, as to recommendations of the Universities Commissioners not included in the previous remits, and their representation of 29th October, 1879, as to taking steps "with a view to legislation on the University Commissioners' Report." It appeared to the Court that such legislation must be initiated by and on the responsibility of Government, and the Court resolved to direct the attention of Government.

ment to the subject.

Minute of the University Court, dated 22nd November, 1880.
The Court appoint Dr. Kirkwood and Alexander Crum, Esq., as their representatives at the Western Infirmary Board for the ensuing year.

The Court met on 21st December, 1880. Present—the Principal in the chair, Dr. Campbell, Mr. King, Professor Berry, Dr. Cameron, and Dr. Kirkwood.

A letter was received from Mr. Crum intimating his resignation of the

office of Lord Rector's Assessor to the University Court.

A letter was read from the Lord Rector, informing the Court that he had appointed Mr. Charles Cameron, M.P. for Glasgow, to act as his Assessor in the University Court. Dr. Cameron thereupon took his seat as a member of the Court.

The General Council having approved of the Court's proposed alterations on Ordinance No. 11, General No. 2, as to the Election of Chancellors, &c., the Court in the meantime resolved to delay carrying through the alterations in so far as Glasgow is concerned, in the hope

that the other Universities may join.

There was submitted to the University Court a print containing the observations by the Edinburgh University Court, on the proposed alterations on Ordinance No. 16, Aberdeen No. 6, as was also a letter from the Secretary of the Aberdeen University Court, which was remitted to the

Senate for their report.

The Secretary submitted a correspondence which he had had with the Lord Advocate, on the subject of taking steps with a view to legislation on the Universities' Commissioners Report. From this correspondence it is ascertained that the Lord Advocate intends to take the earliest opportunity of bringing under the notice of Her Majesty's Government the subject of the Universities, and the report and recommendations of the recent Royal Commission.

On the report of the Senate, the Court resolved to recognize, subject to the consent of the Chancellor and the conditions of the Ordinance thereanent, the Courses of Lectures of the following gentlemen, viz.:—

Dr. A. G. Millar,
Dr. Joseph Bell,

Dr. William Craig,
Dr. J. O. Affleck,
Dr. B. C. Waller,
Dr. F. W. Moinet,
Dr. John Barlow,

John Barlow,

Lectures on Surgery.

Materia Medica and Therapeutics,

Pathology.

Pathology.

Materia Medica and Therapeutics.

Physiology.

The Secretary submitted the Chancellor's approval, dated 3rd ultimo, of the institution of the title of Literate in Arts; and reported that the

Practice of Medicine.

Council's concurrence in the title had been intimated.

The Court approved of the fee of £1, 11s. 6d., proposed for a course of Lectures on Minerals, by Dr. J. J. Dobbie, Assistant to the Professor of Chemistry, the course having been sanctioned by the Senate; and of the fee of Two Guineas, proposed for Professor Balfour's Botanical Laboratory Class.

The Secretary read several Excerpt Minutes of Senate, containing names of gentlemen on whom the Senate had conferred the privilege of

special readers at the Library.

Dr. Samson Gemmell.

An Excerpt Minute of Meeting of the General Council, of date 27th October last, on the position in the University of Glasgow of Pathology and Pathological Anatomy as a department of Medical Education, was remitted to the Senate for their report.

The Court unanimously re-elected Mr. Thomas Muir, M.A., to be

The Court unanimously re-elected Mr. Thomas Muir, M.A., to be Examiner in Mathematics for the period of three years, from 1st

January next.

The Librarian's Report for the year 1879-80 was remitted to the

Principal and the Secretary.

The Court approved of the reappointment, by Professor James Thomson, of Mr. Archibald Barr to the office of the Young Assistantship in

Engineering, from 1st November, 1880, to 1st November, 1881.

The Court then took into consideration an appeal of Professor Young, against the following resolution of the Senate, of date 2nd December, 1880:—"That after Conference with the other Universities of Scotland, so as to secure, if possible, joint action in the matter, it is desirable that such an alteration shall be made in Ordinance No. 15, as shall for the future secure that the Degrees of Bachelor of Medicine and Master in Surgery shall always be conferred in conjunction, so as to constitute in every case a double qualification in the sense of the Medical Act; and that neither of these Degrees shall be conferred apart from the other under any circumstances." And having heard Professor Young in support of his appeal, and Professor Gairdner (as delegate of the Senatus), in answer thereto, the Court, after due deliberation, refused the appeal, and approved of the resolution of the Senatus appealed from.

The Court met on the 31st day of March, 1881. Present—the Principal in the chair, Dr. Campbell, Mr. King, Professor Berry and Dr. Kirkwood.

The Secretary reported that the Chancellor's consent to the recognition of the medical lectures sanctioned by the Court at last meeting had been

obtained.

The Secretary submitted two letters from the Clerk of Senate, together with certain resolutions of the Senate, dated 22nd December, as to the desirableness of establishing a Chair of Pathology and Pathological Anatomy, and the best means of doing so. But the Court having regard to the promised Government legislation in reference to the Scotch Universities, and to the want of funds at present to endow a Pathological Chair, resolved to delay meantime taking any steps regarding the Senate's resolution.

The Secretary reported that on receipt of a minute of the Senate on the subject of the Aberdeen Medical Ordinances, he had informed the Clerk of the Privy Council that this Court had no observation to make

regarding them.

On the report of the Senate the Court resolved to recognise the lectures of Dr. H. Aubrey Husband on Medical Jurisprudence, subject to the consent of the Chancellor, and the conditions of the Ordinance thereanent.

Applications from Dr. Byrom Bramwell, of Edinburgh, for recognition of his lectures on the Principles and Practice of Medicine, and from Dr. William L. Reid, of Glasgow, for recognition of his lectures on Midwifery and the Diseases of Women, were remitted to the Senate for their

report.

The Court had again under consideration the subject of the Degrees of M.B. and C.M., and in connection therewith the following papers were inter alia submitted, viz., (1) Print of a report of the Medical Faculty of the University of Edinburgh, dated 29th January last; (2) an excerpt minute of Senate of this University, dated 24th March, 1881. The Court resolved to adopt the alteration on the regulations for graduation in Medicine therein proposed, by which it will be made compulsory in future that candidates for graduation in Medicine shall take the degree of Master in Surgery at the same time that they take that of Bachelor of Medicine; and the Secretary was instructed to have the necessary steps taken for altering the Medical Ordinance accordingly.

The Court unanimously appointed the following gentlemen to be examiners for the term of four years from 1st April, 1881, viz., Dr. Donald Fraser to be Examiner in Medicine and Clinical Medicine; Dr. Hector C. Cameron to be Examiner in Surgery and Clinical Surgery; and Dr. Alexander Macalister to be Examiner in Physiology and

Pathology.

The Court approved of the fee of 30s. proposed to be charged for each of two tutorial classes to be conducted during the summer by the Senior Demonstrator of Anatomy, under the sanction of the Senate; and of the fee of £1 11s. 6d., for a class to be conducted during May and June by Mr. J. H. Muirhead, B.A., one of the assistants in Humanity, also under the sanction of the Senate.

# XI.—FINANCIAL STATEMENT OF THE UNI-VERSITY FOR THE YEAR 1879-80.

Annual Salaries (exclusive of Class Fees) attached to offices of Principal, and to the Professorships, Assistantships, Lectureships, and Examinerships in the University, by Ordinance of the Universities Commissioners and Deeds of Foundation.

## PRINCIPAL.

Salary,	£988	11	9
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Nore.—To the Principalship and each of the Chairs founded before 1800 an official residence is attached, and also some small allowances for Taxes, Lighting, House Repairs, &c., amounting in all to about £18.

# STATEMENT OF THE INCOME AND EXPENDITURE OF THE UNIVERSITY FOR THE YEAR 1879-80.

The College Revenue is derived—(a) From Teinds—arising from grants—by James, Archbishop of Glasgow, in 1557; by James VI., in 1577 and 1618; by Charles I., in 1630; by Charles II., in 1664 and 1670. (b) From Feu-Duties, &c., of lands granted by James, Lord Hamilton, in

<sup>\*</sup> This endowment is administered by Trustees.

T.

1459; William and Thomas Arthurlie, 1466; Queen Mary, 1563; of the lands, &c., of the Friars Preachers, granted by Queen Mary in 1566 to the Town for pious uses, and conveyed by the Town, under Act of Scottish Parliament in 1572, to the College; and from other ancient foundations. (c) From proceeds of investments of the surplus rents of the Archbishoprick of Glasgow, from 1694 to 1839. The lease of the Archbishoprick was granted first by William III, in 1690, for nineteen years, for payment of the then debts of the University, and other University purposes. The lease was renewed by successive sovereigns till 1825, when £100 per annum from the Archbishoprick was added to the salary of the Regius Professor of Botany; and £800 per annum was granted for general University purposes till 1839. In 1841 the Crown applied the £800 per annum to salaries for certain chairs in the patronage of the Crown. (d) From proceeds of investments from time to time of the annual surplus of income over expenditure.

The gross revenue derived from these sources amounted in 1879-80 to £9,350 18s. 4\frac{1}{4}d. But out of this were paid Ministers' Stipends (£1,643), Taxes, Public Burthens, &c. (£650 2s. 8\frac{1}{4}d.) leaving nett income £7,057 15s. 8d., of which £3,674 2s. 1\frac{1}{4}d. has been allocated at various times from 1577 to 1817 to salaries of Principal and Professors, and the balance of £3,383 13s. 6\frac{1}{4}d. is transferred (under Ordinance 22)

to the General University Fund as stated below.

# INCOME OF THE UNIVERSITY DESTINED BY DEED, STATUTE, OR ORDINANCE.

brillers, on o			4.
For Salaries of Principal, Professors, (1.) Teinds and Endowments under Charters of James VI, Charles I, and Charles II,	and Le	etui	ers :-
&c., as stated above,	£3,674	2	$1\frac{1}{2}$
(2.) Grants of William III, Queen Anne, Geo. I and Geo. II, (3.) Parliamentary Grants, 1807	593	6	8
to 1818, for Foundation of Regius Chairs of Natural History, Surgery, Mid-			
wifery, and Botany, (4.) From the Archbishoprick of	300	0	0
Glasgow for Regius Chair of Botany, 1825,	100	0	0
lieu of King William's Lease of the Archbishoprick of Glasgow, allocated to certain	000	•	0
Regius Chairs,  (6) Parliamentary Grants under the Financial Ordinance (No.	800	U	0
22) of the Universities Commission,	675	0	0
Carry forward, .	£6,142	8	$9\frac{1}{2}$

Brought forward,	£6,142	8	$9^{\pm}_2$			
(7.) Half Deanery of Chapel Royal (Chair of Bib. Crit.).	359	14	113			
(8.) Foundation of Conveyancing	******	. ~	2			
Chair, paid yearly by	3.05	_	0			
Faculty of Procurators, .	105		0			
(9.) Yates (Shuna) Fund, (10.) M'Turk's Foundation,	18		7			
(11.) John Elder Foundation,	225		Ö			
(12.) A recent Foundation,	50	-6	10			
(13.) Foundation of Clinical Sur-	110		(*			
gery Chair, (14.) Foundation of Clinical Medi-	112	11	6			
cine Chair,	112	11	5			
(15.) Grant from the Treasury for						
Augmentation of Principal's						
Salary,	300	0	0			
(16.) The Black Bequest (Chair of Biblical Criticism),	147	0	0			
(17.) Waltonian Lectureship,	103		0			
(1,1)				£7,756	4	Ī
11. For Class Assistants and Class Exp	enses :-	-				
(1.) From General University Fund						
for the Chairs of Natural Philosophy, Anatomy, Che-						
mistry, Materia Medica,						
and Forensic Medicine,						
under Ordinance 22,	455	-0	()			
(2.) From Parliamentary Grant		1				
for Class Assistants, under		0	0			
Ordinance 22,	650	υ	U			
the "Young" Assistant, .	147	-0	0			
(4.) From the Arnott and Thomson						
Demonstratorship Fund, .	135	0	0			
(5.) From the Muirhead Demon-			9			
stratorship Fund,	98	3	9	1,485	3	9
III. For Non-Professorial Examiners:	-			-,		
(1.) From Parliamentary Grants,						
under Ordinances 14 and 15,		0	0			
(2) From General University		1.0				
Fund,		10	0	551	10	0
Total Income destined to Maintenand	ce of Te	each	ning			
Staff, as above, .			٠,٠	£9,792	2 17	10
Total Disposable Income (£9,392 ls. 7½	Class De	low	, less			
£455 for Class Assistants and charged below against General Un				8,937	1	$7\frac{1}{2}$
San Sou Dolon against General Of	ii v Oxisio y	10				-2
Total University Income,				£18,729	19	$5_{2}^{1}$
e e					-	

# INCOME AND EXPENDITURE OF GENERAL UNIVERSITY FUND, 1879-80.

	FUNI	), 101	9-00	٠.					
	In	COME							
1. Balance of F	Revenue from Teind			der Ch	arte	rs			
	VI, and Charles I,								
inge aget	ated p. 258, .	with t	apı	oans.c	L KJU		£3,383	13	6‡
Motriculati	on Foor			•	•	•	2,187		0.3
2. Matriculation 3. Graduation	on Fees,			•	•	•	2,840		5
1. Tiberens Cul	rees,			•	•	•	2,040		0
4. Library Sur	oscriptions, .			•	•	•	167		0
5. General Co	ancil Registration F t Compensation	ees, .		٠,	·	11	107	0	U
6. Governmen	t Compensation	for S	tatio	oners'	Н.	all	m 0 m	_	,
Privilege,				•	•	•	707	0	0
7. Income of 1	Legacies for Library	, .			•	•	54	9	S
							£9,392	1	$7\frac{1}{2}$
	Expe	ENDITU	RE.						_
1. Univers	sity Court and Senat	e							
1. (	Clerk of Senate			£105	0	0			
$\frac{1}{2}$	Clerk of Senate, . Assistant Clerk of	Sens	ıte.		·	•			
2	and Outlays,	OH		180	7	8			
	and Oddays,	•	•	100	•		£285	7	8
II. General	Coumail						2200	•	•
							. 154	8	0
	Registration, &c.,	•	•	•	•		. 104	G	()
III. Busines.									
1. ]	Factor's Salary ar	nd Oi	at-						
	lays,			£457	11	$6\frac{1}{2}$			
2. 1	Law Ágents' Accou	nts.		88	19	0			
	Auditor,					6			
-	,						574	13	0.5
IV. Librarie	·s								. 2
	Librarians' Salaries,			£595	5	0			
	To Account of Ne			.2000		v			
۷		w Cai	Jau-	94	10	2			
9 1	logue, Books and Binding,	•	•	891		8			
J. J	sooks and binding,	•							
4. 3	Stationery, &c., .		•	16	1/	0			
5. 1	To Account of Cata	logue	01	0.0	C	0			
	Hamilton Collection	on,		63		8			
6. ]	Divinity Hall Libra	ry,	•	38	9	0		_	
							1,700		6
V. Hunteria	n Museum, .						. 417	6	7
VI. Observato	$m_{l}$						. 263	13	Li
VII. Buildings									
· _									
	Repairs,			679		8			
2. 1	ighting,			202		1			
3. 1	Heating and Ventil	ating,		570		0			
4. \	Water,			135		8			
5. 1	insurance,			178	14	3			
							1,766	12	8
	Carry forward,						£5,162	6	7
	· ,								

N7777	Brought forward,					£5,162	6	7
V 111.	Service, Cleaning, and Maintenan of Grounds,	ce				977	16	1
IX.	Class Assistants and Class Expense	8						
	1. Allocated by Commissioner Ordinance,	's'	£455	ō	0			
	2. Allowed in other Classes,		56		4			
			2511		_			
	Less not expended, .		£511 8		4			
	* ,					503	3	0
Χ.	Printing and Advertising— 1. Printer's Accounts,		£284	17	0			
	2. Newspaper Accounts, .		77		2			
200	D		F-4			362	5	2
	Prizes and Medals,		•		٠	164	19	()
Х11.	Compensation for Graduation Fees under Commissioners' Ordinance,					50	0	0
XIII.	Pensions,				Ċ	70	-	0
	Contribution to Glasgow Police,					21	0	0
	Miscellaneous,					80	9	10
XVI.	Law Examiners,					31	10	0
	Medical Examiner,					40	0	0
	Installation of Lord Rector,					209		10
	Portrait of the late Charles Rando Interest on Bond over Gilmorehill,	lph.	, Esq	٠,	٠	540 195		8
	interest on bond over Ginnorenin,	,	•	•	٠	130	10	
	Total General Fund Expenditure,					£8,408		2
	Surplus,			•	٠	983	10	$5\frac{1}{2}$
	Together equal to Income,					£9,392	1	75
					-			
1	NCOME OF TRUST FUNDS FOR BUR AND PRIZES.		ies,	Sch	0L	ARSHIPS,	,	
, 73			,			00.015		
1. Fr 9 Er	om Capital Funds in charge of the om Estate managed by Balliol Coll	Sen	ate,	ord.	٠	£6,217	14	2
1	O Exhibitions, at £110,	، و	, OAI	,		1,100	0	0
3. Fr	om Funds in the hands of the T	Cow	n Co			0.900	0	
r	Merchants' House, and Trustees, ab	out			•	2,300	0	0
						£9,617	14	2
							_	

#### APPENDIX-I.

# REGISTER OF MEMBERS

OF

# THE GENERAL COUNCIL

FOR THE YEAR COMMENCING 1st JANUARY, 1880.

Abbot, R.T., M.D., Bray, Co. Wickl'w Abercromby, R., M.A., min., Norwich Acworth, J., M. A., LL. D., Scarb'rough Acworth, W., M.A., minister, Farrs Adam, Alex., M.B., Glasgow Adam, Charles, M.D., Coatbridge Adam, Hect. M., M.A., min., Aberdeen Adam, James A. M.D., Glasgow Adam, John, D.D., min., Hillh'd, Glas. Adam, John M., M.B., Glasgow Adam, Thos., M.A., st., Holytown Adam, Thomas B., M.B., Glasgow Adam, William, teacher, Glasgow Adam, Wm. John, M.B., Hillh'd, Glas. Adams, William S., M.D., Jersey Adamson, Jas., M.D., Hetton-le-Hole Adamson, J. G., M. D., Lurgan, Armagh Adamson, Wm. F., M.A., min., Ayr Affleck, John, M.A., D.Sc., Ayr Agnew, David, M.D., Glasgow Agnew, Jas. M., min. Crossho'e, Kilm'k Aiken, Jas., M.A., writer, Dalmoak Aiken, J. B., M.A., writer, Dalmoak Aikman, Chas. Brown, writer, Glasgow Aikman, J. Logan, D.D., min., Glas. Aikman, John, M.D., Glasgow Aikman, Robert S., writer, Glasgow Aird, Hugh, M.A., minister, Brechin Aitken, Jas. Macall, M. D., Kilmarnock Aitken, John, M.D., Govan Aitken, John, M.D., Buckhaven

Aitken, Robert Easton, C.A., Glas. Aiton, Thomas, B.A., min, Sauchie Alcock, Abraham, M.D., New Ross Alexander, Arch., M.A., Kirkintilloch Alexander, A. B. D., M.A., H'sburgh Alexander, John, M.A., min., Partick Alexander, J.B., M.A. stud., Greeno'k Alexander, Peter, M.A., teacher, Glas. Alexander, Robert, min., Dunfermline Alexander, Wm., M.D., Dundonald Alison, Sir A., Bart., Lt.-Col., London Alison, Archibald, minister, Leslie Alison, Arthur, advocate, Edinburgh Alison, George, minister, Kilbarchan Alison, John, M.A., min., Edinburgh Alison, Sam. S., M.A., min., Donegore Allan, G.F., M.A., LL.B., st., H'hd. Allan, Geo. R., B.A., M.B., Glasgow Allan, James, minister, Glasgow Allan, Jas. Paul, M.D., Duntocher Allan, James W., M.B., Glasgow Allan, John, minister, Belhelvie Allan, J., M.A., surv. of taxes, Glasg. Allan, Robert, M.B., Ardrossan Allan, Wm., M.A., student, Glasgow Allan, William, M.B., Kilmarnock Allardice, John, M.A., tea., Lerwick Allen, Charles, M.A., min., Convoy Allen, Robert A., M.D., Chatham Allen, Wm. B., M.B., Glasgow Allison, Alexander, M.D., Renfrew

Allison, James, minister, Cupar-Fife Allnatt, R. H., M.D., Frant, Sussex Almond, Hely H., Musselburgh Alpine, G., M. A., B. D., min., C'tbridge Alston, Andrew, minister, Newmilns Alston, James M., M.D., Airdrie Anderson, A. M'G., M.D., Dundee Anderson, A. R., M.A. stud., Paisley Anderson, David, min., Ceres, Fife Anderson, F. F., M. A., min., Whithorn Anderson, Geo., min., New Cumnock Anderson, Henry, minister, Partick Anderson, Hugh, M.B., Glasgow Anderson, James, M.B., Johnstone Anderson, J. F., M. A., st., Miliken Park Anderson, Jas. H., manufact., Lond. Anderson, Jas. Rae, M.D., Waterbeck Anderson, Jas. W., M.D., Glasgow Anderson, John, M.A., min., Falkirk Anderson, J., B.D., min., Hillhd, Glas. Anderson, John, M.D., London, S.E. Anderson, Jn. Wm., M. A., st., Ulv'st'n Anderson, Jn. Wilson, M.A., st., Pais. Anderson, Jonath., writer, Glasgow Anderson, Mw. S., M.A., stud., Glasg Anderson, Rt., D.D., min., Glasgow Anderson, Robert, minister, Kilsyth Anderson, Rt. Carew, M. D., Waterford Anderson, Robert H., manufact., Lon. Anderson, T. M'Call, M. D., prof., Glas. Anderson, William, min., Fettercairn Anderson, Wm., J.P., Edinburgh Anderson, W., min., Boyndie, Banff Anderson, William, minister, Cults Anderson, Wm. H., M.B., Arbroath Anderson, Wm. S., M. D., Ch'l-en-le F'h Anderton, G. L., M. D., Douglas, I. of M. Andrew, Alexander, min., Glasgow Andrew, Robert, M.A., stud., Paisley Angus, Robert, missionary, Chryston Annan, Arch. J., B.L., writer, Glas. Appleton, Henry, M.D., Pateley B'ge Arbuckle, John H., M.D., Wakefield Armour, And., M.D., Redhouse, Crook Armour, Matthew, minister, Sanday Armstrong, G.C., M.D., Blackr'k, Dub. Armstrong, W. A. A., M. A., m. H'tings Arnot, Thomas, writer, Glasgow Arnott, Jas., M.D., H.M. Indian Army Barbour, George Freeland, Edinb'gh

Arrol, C., M.B., Bankstown, Sheerness Arthur, Adam Niven, teacher, Dunoon Arthur, David, minister, Aberdeen Arthur, D. F., min., Banchory, Deven'k Arthur, Hugh, M.B., Airdrie Arthur, James, minister, Springburn Arthur, James, M.A., Dunoon Arthur, James, M. A., B. D., st., Airdrie Arthur, John Findlay, M. D., N. Cum'k Arthur, Patrick, M.D., Lambourne Archer, Wm., M.D., Huddersfield Asher, Asher, M.D., London, W. Atkinson, John P., M.D., Bampton Auld, Charles, M.D., Greenock Auld, Charles, M.D., Kilwinning Auld, William, minister, Tollcross Auld, W., M.A., B.D., min., Carnock Austin, R., M.D., Ranelagh, Dublin

Babtie, Wm., M.B., Dumbarton Badenoch, G. Roy, min, Lee, Kent Bailey, William E., M.B., Stockport Bain, James, minister, Glasgow Bain, Joseph, writer, Lynworth Bain, William, M.A., student, Selby Baird, Hugh, minister, Cumbernauld Baird, John, M.A., B.D., min., Hel'sb. Baird, John, M.B., Hillhead, Glasg. Baird, Robert, writer, London Baird, Wm. Jas., M.D., Southampton Baker, John C., M.D., Liverpool Balbirnie, John, M.A., M.D., Sheffield Balderston, J. C., min., West Kilbride Balfour, David D., sheriff-subt., Glasg. Ballantyne, Jas. T., M. B., B'gton, Glas. Ballantine, James, M.D., Catrine Ballantine, Robert, M.D., Girvan Ballantyne, William, min., London Ballingall, John K., min., Kinghorn Balloch, Robert, merchant, Glasgow Bamber, W. R., M.A., stu., Glasgow Bankhead, W. T., M.A., st., Kilm'k Banks, Alex., M.A., min., Carnwath Banks, John, M.B., Dunoon Bannatyne, A., M.A., min., Paisley Bannatyne, D. J., jun., wr., Glasg. Bannatyne, John, min., Takaka, N.Z. Bannatyne, Mark, writer, Glasgow

Barbour, John B., M.B., London Barbour, James M., M.B., Glasgow Barbour, Robert N., M.A., Paisley Barclay, Arthur, M.B., Netley Barclay, Jas., M.A., min., Edinburgh Barclay, J., M.A., D.D., min., Toronto Barclay, Thos., M.A., student, Glas. Barclay, T., M.A., law-student, Edin. Barker, H. M., LL.D., teach, Glasgow Barnett, John, minister, Kilbrandon Barnett, J., M.A., min., Moneymore Barnhill, James, M.A., Glasgow Barnhill, W., B.D., minister, Glasgow Barr, Alexander, minister, Airdrie Barr, A., B. Sc., C. E., Castleh'd, Paisley Barr, James, minister, Bucklyvie Barr, James, M. B., Everton, Liverpool Barr, Jas. B., M.B., Burn, Lesmah'w Barr, John, surgeon, Rishton Barr, Thomas, M.D., Glasgow Barr, William, minister, Jedburgh Barrie, John, M.D., Crosshill, Glasg. Barrie, Wm. R., min., Longframlington Barras, William, minister, Glasgow Barry, J. C., M.A., stu., Dennistoun Bartholomew, R., merchant, Glasgow Bathgate, Wm., M.A., stud., Oxford Battersby, John Geo., M.D., Lismore Baxter, John C., D.D., min., Kirkcaldy Bayne, Alexander, min., Tingwall Baynes, Jos., M. B., Barrow-in-Furness Beatson, Henry, minister, Barra Beck, John Wood, M.D., Belfast Beckett, Alex., M.D., Moneymore Beckett, John, M.D., Crosshill, Glasg. Beckett, William, minister, Glasgow Beckett, Wm., M.A., writer, Glasgow Begg, Bruce B., M. A., min., Kirkcaldy Begg, Jas., M.A., D.D., min., Edin. Begg, William, minister, Falkirk Beggs, John, M.D., Reedsmouth Beith, Alex., D.D., minister, Stirling Bell, Andw. B., advocate, Edinburgh Bell, Charles, M.D., Edinburgh Bell, David, M.D., Goole, Yorkshire Bell, Henry W., M.A., min., Aberd'n Bell, John P., M.D., Hull Bell, Robert, M.D., Glasgow Bell, Thomas, minister, Edinburgh Bell, Walter, writer, Glasgow

Bell, William, M.D., Preston Bell, William, M.A., M.D., Garstang Bennett, Sam., M. D., Bruff, c. Limerick Bennie, James, M.D., Glasgow Bennie, J. N., LL.B., clerk, Leicester Bennie, William, minister, Bathgate Beresford, R. de la Poer, M. D., Osw'st'y Berry, H. L., M.A., min., Hampstead Berry, James, minister, Bucklyvie Berry, Robert, M.A., professor, Glas. Bethune, John, minister, Canada Beveridge, John, M.A., stud., Ayr Biggart, Samuel, M.D., W. Hartlep'l Biggar, David, M.D., Portadown Biggar, J. W., M. A., teach., Pol'shaws Biggs, Solomon R., M.D., Seacombe Birchall, Thomas B., M.B., Preston Binnie, W., M.A., D.D., prof., Aberd'n Birkmire, Archibald, min., Glasgow Bishop, J. C., LL.B., st., C'tbridge Black, Andrew, minister, Cambridge Black, Ch. S., M. D., Clermont, H'wood Black, Donald Campbell, M.D., Glas. Black, Eben. S., M. A., writ'r, Wigtown Black, Geo., M.B., Airdrie Black, George, writer, Glasgow Black, James, M.A., min., Stockport Black, John, minister, London, E.C. Black, John, minister, New Castleton Black, Malcolm, M.B., Airdrie Black, Robt., M.A., min., Liverpool Black, Robert, M.A., min., Kilsyth Black, William, town clerk, Stranraer Blackburn, H., M.A., ex-pr., Roshven Blackie, W. G., Ph. D., publisher, Glas. Blake, B., B.D., min., Redhill, Surrey Blair, David, M.D., Benvan, Glencoe Blair, Hugh, M.A., min., Killeygordon Blair, John, min., Straiton, Maybole Blair, Robert, M.A., min., Glasgow Blair, Robert, M.D., Glasgow Blair, Robert, D.D., min., Galashiels Blair, S., min., Dalry, Castle Douglas Blair, William, M.D., Jedburgh Bleckley, John, M. A., min., Monaghan Bleloch, Archd., M.A., min., Edinb'gh Bleloch, David, min., Hampstead Blues, William, student, Edinburgh Blyth, David, M.B., Newbury-on-Tay Blyth, James, M.A., min., Alnwick

Blyth, J.G., M.A., LL.B., law-cl., Glas. Bogle, Andrew, min., Callander Bogue, J., M. A., min., St'ckt'n-on-Tees Bolland, Edward H., M.D., Dublin Bonallo, David, minister, Blackford Bonar, J., M. A., lect'rer, London, W.C. Bonar, Thos. Y., M.A., stud., Glasgow Bonnar, Jno., M.A. stud., E. Kilbride Bond, Jno., M.B., Glasgow Bond, Wm. Jas., M.B., Brill, Thame Booth, John, M.B., Oswaldtwistle Borland, Dav., M. A., min., Cairneyhill Borland, John, M.B., Glasgow Borland, John, M.D., Kilmarnock Bossy, Francis, M.D., Redhill, Surrey Bowie, James, min., Craig, Dunscore Bowie, Thomas, M.B., Coatbridge Bowman, Archibald, min., Forglen Boxwell, F., M.D., Butlerstown Castle Boxwell, Henry H., M.D., Wexford Boyd, A., capt. Roy, Renf. Mil., St. And. Boyd, A.K. H., D.D., min., St. Andr'ws Boyd, Jas. D., M.B., Beith Boyd, J., M.A., teacher, Alnwick Boyd, James, writer, Glasgow Boyd, Jas., M.A., min., London, N. Boyd, J., M. A., D. D., min., Campbelt'n Boyd, J., D.D., min., West Kilbride Boyd, J., M.A., min., Wemyss Bay Boyd, Robert, B.L., solicitor, Irvine Boyd, Rob. M., M.A., min., Fordoun Boyd, Wm., LL.D., minister, London Bradford, Wm. A., M.B., Chippenham Bradley, M. M., M. D., Jarrow-on-Tyne Bradshaw, B. W., M.D., Bansha Braidwood, J., M.A., min., Edinb'gh Brand, David, advocate, Edinburgh Branks, W., M.A., min., Torphichen Brash, James, M.D., Glasgow Breaky, A., M.A., min., Kilileagh Bremner, H., M.A., min., Partick Brisbane, James, M.D., London Brisbane, T., minister, Cambuslang Briscoe, Henry, M.D., R.A., Woolwich Broadfoot, William, M.B., Greenock Brock, Walter, M.D., min., Glasgow Brock, Walter P., M.A., st., Glasg. Brodie, John, M.B., Army Med. Dep. Brodie, J. Ewen, M.D., Glasgow Brodie, Neil, minister, Langside

Brodie, Robert, writer, Glasgow Brown, A. B., M.A., stud., Glasgow Brown, A.M., M.A., B.D., Kirkintil'ch Brown, Angus, minister, Fortrose Brown, Archibald, M.B., Glasgow Brown, David, minister, Glasgow Brown, D., M.A., min., Falcurragh Brown, G., minister, Pau, France Brown, Geo., M.D., Colchester Brown, Hugh, M.A., of Broadstone Brown, James, D. D., minister, Paisley Brown, James, M.B., Braemar Brown, J., insp. of N. Schs., Tanag'more Brown, Jas., M.A., min., Tillicoultry Brown, J. B., minister, Dunfermline Brown, J. Reid, captain, London Brown, J., M.A., D.D., Droghead Brown, John, minister, Glasgow Brown, J.B., M.A., LL.B., I'w-st., Glas. Brown, J. C., probationer, Glasgow Brown, J. C. C., min., Ceres, Fife Brown, J. F. Cullen, M.B., Bonhill Brown, J. Har., of Quarter, Stirlingsh. Brown, J.T., M.B. Drumsleet, D'mfries Brown, John J., minister, Kinclaven Brown, J. Ritchie, M.D., Saltcoats Brown, J., D.D., minister, Glasgow Brown, M. T., B.Sc., eng., P'kshields Brown, Robert, M.D., Dunfermline Brown, Robert, teacher, Shotts Brown, Robert, M.D., Tranent Brown, R. Hope, min., Dunfermline Brown, Thomas, surgeon, Dunblane Brown, W., M.A., M.D., Yeats Brown, Wm. H. J., M.B., Prestwick Brown, W. Lochore, writer, Glasgow Browne, Andrew, minister, Beith Browne, H., M.A., M.D., Manchester Browne, James, M.D., Castlecaulfield Browne, J., M.A., min., Dungannon Browning, T.B., M.A., bar., Dundas, C. Brownlee, J., minister, Rutherglen Brownlie, Wm., M.A., min., Glasgow Bruce, J. H., M. D., C'tle Dykes, D'fries Bruce, J. C., M.A., LL.D., Newcastle Bruce, R. Stewart, minister, Wishaw Bruce, Thomas, min., New Zealand Bruce, W., B.D., min., Dunimarle Bruce, W., D.D., min., Edinburgh Brunton, J., B.D., min., Perth

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Stewart, Wm., M.D., Portadown Stillie, John, minister, Girvan Stirling, Alexander, min., Monkton Stirling, C., M.B., Bermondsey, S.E. Stirling, David, min., Craigie manse Stirling, Jas. H., LL.D., Edinburgh Stirling, Wm., minister, Coatbridge Stobbs, J.G., M.A., min., Melbourne Stobbs, S. S., min., Lugar, Ayrshire Stobo, George, M.D., Renfrew Stokes, Gabriel, M.D., Mullingar Storer, George, M.B., Glasgow Storry, Alex. R., min., Carmunnock Stothert, Thomas, min., Lumphanan Stout, T., M.A., B.L., writer, Glasg. Strachan, Benj., M.B., Sunderland Strachan, James, M.A., min., Barvas Strang, Chris., M.B., Harrington Strang, Geo., M.A., stud., Dumfries Strang. Geo. W., M.A., min., Camb'n. Strang, John, M.B., Airdrie Strang, John, clerk, Glasgow Strang-Watkins, G. Y., writer, Glas. Strange, Robert, M.D., London Strathern, Robert, writer, Edinburgh Strong, D., M.A., minister, Glasgow Struthers, J., of Avonholm, Glassford Struthers, J., tut., Overfield, Strath'n Struthers, Rob. T., M.A., stu., London Struthers, W., M.A., min., Carstairs Stuart, John, M.B., Pollokshaws Stuart, Wm., M.A., B.D., stu., Glas. Stuart, W. L., M.D., Kirkfield, Both. Suddard, F. E., M.A., tr., Lon. W.C. Suffield, W. H., M.D., Tatterfrack Sutherland, Alex., min., Strathbungo Sutherland, A.N., M.A., st., H'h'd, Gl. Sutherland, Arthur, M.B., Glasgow Sutherland, J., M.A., min., Dunbar Sutherland, Walter, M.B., Wolveston Swail, Geo. T., M.B., Macclesfield Swan, Arch. A., B. Sc., C. E., Maryhill Swan, David, manufacturer, Maryhill Swan, Jas., Wattison, Lochwinnoch Swan, Wm., shipbuilder, Maryhill Swanston, W., M.A., LL.B., Kir'caldy Sweenie, W.F., M.B., Newton Cun'm Sweet, Wallace G., min., Glasgow Sweetenham, W. K., M.D., London Swift, Benjamin, M.D., Donnybrook | Thomas, D., M.A., min., Pennycuick

Symes, Glascott, M.D., Kingstown Symington, Wm., min., Dennistoun

Tagert, R. M., M.D., Carrickmacross Taniguchi, Naosada, B. Sc., C. E., Lon. Tannahill, John, M. A., min., Penrith Tannahill, T. F., M.B., Old Cumnock Tanner, W. K., M.D., Teap Is., Cork Taplin, H. L., M. A., min., Todmorden Taplin, James F., M.D., Small Heath Tarbert, Richard, teacher, Darvel Taylor, Alex., M.B., Glasgow Taylor, A., merchant, Strathaven Taylor, David, M.D., Paisley Taylor, David, minister, Glasgow Taylor, David, M.B., Glasgow Taylor, D., min., Avond'le, Str'thav'n Taylor, James, M.A., minister, Monie Taylor, James J.B., M.B., Ulverston Taylor, J.R., M.D., New'n., Mt. Ken. Taylor, J. W., M. A., stu., N.-Mearns Taylor, John, M.D., Drum, Clones Taylor, John, schoolmaster, Brodick Taylor, J. M., writer, Glasgow Taylor, John, M.A., teacher, Paisley Taylor, M. C., D.D., min., Edinb. Taylor, Neil, minister, Dundee Taylor, Robert, min., New Pitsligo Taylor, R., Twyford, Milton Mowbray Taylor, Robert D., M.D., Glasgow Taylor, Robt. G., M.B., Partick Taylor, Rev. Rob. M., librarian, Glas. Taylor, M. H., M.D., Johnstone Taylor, Wm. M., M. A., min., N. York Taylor, Wm., M.A., stud., Green'k Taylor, William, M.D., Chester Taylor, William, M.B., Glasgow Taylor, W. C., M.A., stud., Greenock Telford, A. Barr, M.D., Whitefield Templeton, J. L., min., Duntocher Templeton, T., M.A., eng., Kinnoul Tennent, Gavin P., M.D., Glasgow Tennant, George, M.B., N.-on-Tyne Tennent, G. Rainy, Edinburgh Tennent, Patrick, W.S., Edinburgh Ternan, John, M.D., London Theobald, Robt. M., M.A., M.D., Lee Theophilus, D., M.A., st., Lond. E. Thomas, David, min., Lockerbie

Thomas, James, M.D., Selkirk Thomas, Maurice, M.B., Pwllheli Thomas, W., M.A., solicitor, Glasg. Thomas, Wm., M.A., min., Llandyssil Thompson, George, M.B., Shipley Thompson, Jas. A. B., M.D., Corfe Thompson, S., M.A., min., Donegal Thompson, W. J., M.D., Inistige Thomson, Alex., M.D., Dumfries Thomson, A., M.A., min., Peebles. Thomson, Alf. M., M.B., Plymouth Thomson, Allen, M.D., em-prof., Lon Thomson, A., D.D., min., Edinburgh Thomson, A.W., C.E., B.Sc., J'stone Thomson, D., M.D., Higham Ferrers Thomson, E. B., M.D., Chelmsford Thomson, G. W., M.D., Haywood Thomson, Hugh, minister, Glasgow Thomson, Jas., LL.D., prof., Glasg. Thomson, James, min., Magherally Thomson, James, minister, Hillhead Thomson, J., M.A., C.E., Hillhead Thomson, J. H., B. D., pro., Grangem'h Thomson, John, minister, Kilmarnock Thomson, John, D.D., min., Paisley Thomson, John, minister, Liverpool Thomson, J., min., N.-C.-on-Tyne Thomson, John, minister, Edinburgh Thomson, John C., M. A., stu., Paisley Thomson, J. E. H., M. A., B. D., Stirling Thomson, N. H., advocate, Edinb. Thomson, Peter, minister, Tobermory Thomson, Peter, minister, Paisley Thomson, Robert, min., Glasgow Thompson, Robert, M.D., Johnstown Thomson, R., M.A., min., Rothesay Thomson, R. S., B.Sc., st., Glasgow Thomson, Rob. T. W., M.B., Kilbirnie Thomson, Samuel, M.D., Motherwell Thomson, Thos., M.D., Maidstone Thomson, Thomas, W.S., Edinburgh Thomson, Thomas, M.B., Glasgow Thomson, Sir W., D.C.L., prof., Glas. Thomson, W., minister, Edinburgh Thomson, W., minister, Lesmahagow Thomson, W. S., M. D., Peterborough Thomson, W. D., M. A., min., Dumfries Thomson, Wm. J., M.D., Carluke Thomson, W. S., minister, Ford Thorburn, R. T., surgeon, Loanhead

Thorburn, Wm., M.A., min., Bury Tinniswood, George, M.D., Norton Tod, Alexander, merchant, London Topping, J. P., M.B., London, W. Torrance, John, minister, Glasgow Torrance, John, minister, Dumfries Torrance, James H., M.D., Wolston Trimble, R., M.D., Castle-Bellingham Tucker, James, M.D., Sligo Turnbull, George, M.A., min., Dailly Turnbull, John, writer, Glasgow Turnbull, Mungo, M.D., Cambuslang Turnbull, R., M.B., Northumberland Turner, Duncan, M.A., min., Tealing Turner, Robert, min., Kinnettles Turner, W., far., Gavinburn, O. Kilp'k Turner, W. Y., M.D., Demerara Tweedy, Henry, M.D., Dublin

Underwood, A., M. A., min., B. on T'nt Unwin, W. J., M. A., LL. D., min., Lon. Ure, A., M. A., LL. B., adv., Helensb'h Ure, John, clerk, Glasgow Ure, Neil Shaw, min., Manchester Ure, R., M. A., st., Udston, Hamilton Urquhart, A., M. A., min., Portpatrick

Valentine, George, M.B., Girvan Vallance, Jas., min., Tinwald Manse Vardy, Chas. F., M.A., min., London Vary, John, minister, Carmichael Vass, James, M.A., law-st., Hillhead Veitch, J., M.A., LL.D., prof., Glas. Vernon, Richard, M.D., Audley Viehoff, J. M., B.Sc., stu., Leipzig

Waddell, Arthur R., M.D., Airdrie Waddell, J. C., M.D., Tombl'd, Nor. Waddell, Laurence A., M.B., Glasgow Waddell, P. H., LL.D., min., Glass Waddell, P. H., B.D., min., Glasgow Waddell, T. C., D.D., Cumbernauld Waddell, Walter, min., Borthwick Waddell, W.W., M.A., insp. sch., Edin Waddington, Isaac, M.D., Bradford Wade, George, minister, Falkirk Wakefield, Wm., M.D., London Wainwright, J. W., M.D., St. L.-on-Sea Walker, Alex., M.A., min., Millport Walker, Alex., M.A., stud., Glasg.

Walker, Allan, M.B., Seaton Burn Walker, Archd., minister, Row Walker, David, M.A., min., Glasgow Walker, George, M.D., Birkenhead Walker, Hugh, M.A., stud., Kilbirnie Walker, James, preacher, Glasgow Walker, John F., sch'lmaster, Kilsyth Walker, Robert, M.D., Glasgow Walker, Rt., M. A., B. D., stu., Barrh'd Walker, Thos., min., Dalmellington Walker, Wm., M.D., Pollokshaws Walker, William, probat., Greenock Walker, Wm., min., Midcalder Walker, Wm. M., min., Ochiltree Walker, W. Taylor, M.A., stu., Glas. Wall, Thomas, M.D., Cork Wallace, Alex., D.D., min., Glasgow Wallace, Alex., M.B., Baillieston Wallace, Ed. Jas., M.D., Cleckheaton Wallace, James, M.D., Greenock Wallace, Jas., min., Lochwinnoch Wallace, J., M.A., stud., P.-Glasgow Wallace, Jardine, minister, Traquair Wallace, Samuel, M.D., Cardiff Wallace, William, of Solsgirth Wallace, W., M.B., Auch'nst'g, Kils'h Wallis, Patrick, M.D., Charleville Walsh, Arthr. D., M. D., Cloughjordan Walsh, John, M.D., Liverpool Walton, T. U., C.E., B.Sc., Green'k Wardrop, D., M.A., teach., Greenock Wark, David, min., Auchineairn Waters, John H., M.D., London, S. W. Watson, A. C., M.A., st., Glasgow Watson, A., M. A., D. D., min., Dundee Watson, David, M.A., min., Clough Watson, Eben., M.A., M.D., Glasgow Watson, John, M.A., stud., Galston Watson, Robert, M.D., Glasgow Watson, Thomas, writer, Glasgow Watson, Thomas, advocate, Glasgow Watson, Thos., M.B., Sunderland Watson, Wm., minister, Langholm Watson, Wm., M.A., st., Partick Watt, D. G., M. A., min., London, N. Watt, H.G., M.A., B.D., min., Dundee Watt, James R., M.B., Ayr Watt, John C., M. A., stud., Cambridge Watt, Wm., min., Norriston, Thornhill Watt, Wm. M., min., Shotts manse

Waugh, Thos., M.D., Stewartstown Weild, A., minister, Thornliebank Weir, Andrew, M.B., Paisley Weir, James B., M.D., Silverstone Weir, James J., M.B., Glasgow Weir, John, minister, Glasgow Weir, John, M.A., minister, Forfar Weir, John W., M.D., Glasgow Weir, John, M.D., Carrickfergus Weir, James B., M.D., Silverstone Weir, John Craig, minister, Jarrow Weir, Robert, minister, Glasgow Weldon, R. G., M.A., min., Rothesay Wells, G. H., M.A., min., Gorton Wells, J. H., min., Bridge of Earn Welsh, Alexander, M.D., Whitworth Welsh, John, M.D., Ballyshannon Welsh, Robert, M.A., Old Cumnock Welsh, Walter, min., Auchtertool West, Duncan M'Arthur, Crosshill West, Henry R., M.D., Harpenden West, John Hy., M.D., 59 Brig. Depot Westropp, William, M.D., Limerick Whammond, W., M.D., Jarrow-on-T. Wherland, James R., M.D., Cork White, Adam, advocate, Glasgow White, James, manufac., Overtoun White, James W., M.D., Glasgow White, John, M.D., Pollokshields White, John, M.A., stud., Whiteinch White, John, M.A., min., Glasgow White, J. C., M.A., mer., Crosslet White, M., M.A., min., Blairgowrie White, Peter, minister, Wooler White, R., M.A., prob., Maxweltown White, Walter, minister, Carnoustie White, William, M.D., Borriscastle Whiteford, A., M.A., stu., Stewarton Whiteford, J., M.A., assis.min., Stir'g Whitehead, Alex., M.B., Paisley Whitelaw, Wm., M.D., Kirkintilloch Whitson, James, M.D., Glasgow Whittaker, James T., M.D., Glasgow Whitworth, Henry, M.D., St. Agnes Whyte, A., M. A., min., Clackmannan Whyte, D., M.A., min., Baun, D'patri'k Whyte, H. L. sec., Workington Whyte, J. B., minister, Hartlepool Whyte, R., M.A., min., Edinburgh Whyte, R. H., minister, Lockerby

Whyte, William, B.Sc., Stirling Wight, G., M.A., min., Wamphray Wilkie, J. M., Egremont, Cheshire Williams, B. T., M.A., barris., Lond. Williams, E., M.A., min., Llanelly Williams, E., M.A., teacher, Tydvil Williams, Geo., M. D., Dingle, c. Derry Williamson, D., min., Forgandenny Williamson, James, min., Craigleith Williamson, Jas. F., prop. agent, Glas. Williamson, R., min., D.D., Asc'g, B'te Williamson, Walter, writer, Beith Williamson, Wm. J., M.A., Derry Willis, George, M.D., Monmouth Willis, Wm. R., M.B., Baillieston Willison, John, writer, Glasgow Wills, James, M. B., Leadgate, Durham Wilson, Adam J., M.A., stud., Glasg. Wilson, Alex., minister, Glasgow Wilson, A.S., B.Sc., M.A., stud., Glas. Wilson, Allan, M.D., Castle Eden Wilson, Andrew, M.D., Newton Disley Wilson, Charles, M.B., Muirkirk Wilson, D., min., Borrowstownness Wilson, David, M.A., stud., Glasgow Wilson, David, M.B., New Washingt'n Wilson, David, M.B., Huddersfield Wilson, G., M.B., Ashton-under-L. Wilson, George, M.D., Huddersfield Wilson, Henry, M.A., stud., Glasg. Wilson, Henry B., M.B., Glasgow Wilson, Hugh, M.D., Ochiltree Wilson, Hugh C., M.A., min., Eastb'e Wilson, James, minister, Perth Wilson, James, minister, Dundee Wilson, J., M.A., min., Broughtyferry Wilson, James, M.D., Johnston Wilson, James, M.A., stud., Glasgow Wilson, Jas. A., M.B., Cambuslang Wilson, James M., M.B., Doncaster Wilson, James H., teach., Cupar-Fife Wilson, John, town clerk, Rothesay Wilson, John, minister, Helensburgh Wilson, John, minister, Aberdeen Wilson, John, M.A., student, Glasg. Wilson, J., M.A., minister, Methven Wilson, John, M.D., Strathaven Wilson, John, M.D., Carnwath Wilson, John, M.D., Lanchester Wilson, John, M.B., Glasgow

Wilson, J. G., M. D., Ash.-under-Lyne Wilson, John S., M.D., Bellshill Wilson, John, M.A., st., Tillicoultry Wilson, John, M.D., Glasgow Wilson, John, minister, Bellshill Wilson, John, M.D., Brookborough Wilson, John N., M.B., Glasgow Wilson, John R., M. A., stud., Glasgow Wilson, J., M.A., sc. mas., Leatherh'd Wilson, Matthew, M.A., Edinburgh Wilson, P., M.A., min., Whiteinch Wilson, Robert, surgeon, Coatbridge Wilson, R., M. A., min., N. Ronaldshay Wilson, Robert, M.D., Alnwick Wilson, R.A., M.D., Hornby, Lancas. Wilson, Stewart, M.D., Omagh Wilson, T., M.A., min., Lesmahagow Wilson, Thomas C., min., Dunkeld Wilson, Thomas L., min., Longridge Wilson, T. R., M.A., teacher, Denny Wilson, William, minister, Kippen Wilson, William, M.D., Irvine Wilson, W. B., preacher, Bellshill Wilson, William A., M.D., Greenock Wilson, William M., writer, Govan Wingate, William, minister, Ryde Winn, James M., M.D., London Wishart, Robert, min., Thornhill Wishart, R. S., M.A., teach., Glasg. Wolfe, John Reissberg, M.D., Glas. Woodburn, Jas. C., M.D., Glasgow Woodgates, Sam. H., M.D., Bright'n Woods, Thomas, M.D., Parsonstown Woolley, Samuel P., M.B., Bradford Wotherspoon, W. L., min., Kilspindie Wray, Wm., M.A., min., Cookstown Wright, Alex., M.A., min., Stirling Wright, D., M.A., min., Bellahouston Wright, Hugh, solicitor, Edinburgh Wright, Peter, minister, Forfar Wright, Stewart, minister, Blantyre Wright, William, minister, Lochee Wyer, Otho F., M.D., Leamington Wylie, A. Howie, M.D., Oldham Wylie, A., M.A., minister, Glasgow Wylie, Alexander, W.S., Edinburgh Wylie, John, M.B., Sunderland Wylie, W., M.A., teacher, Glasgow Wyllie, Wm, M.D., Kirby, Lonsdale Wyllie, Wm., M.A., min., Blantyre

Yair, David W., min., Firth, Orkney Yair, John M., M.B., Kilcreggan Yair, Jos., M.A., minister, Eckford Yarrow, Henry, M.B., Glasgow Yeaman, George, M.D., Glasgow Yeo, Gerald, M.D., Harling, Petersfi'd York, William, writer, Glasgow Young, Alexander, writer, Glasgow Young, Arch., M.A., min., Aberd'n Young, David, M.B., Hamilton Young, David, D.D., minister, Glasg. Young, David, M.B., Partick Young, E. D., M.A., stud., Edinb.

Young, James, minister, Selkirk Young, J., M.A., stu., Lesmahagow Young, James W., writer, Kilsyth Young, J., M.D., professor, Glasgow Young, John, M.D., Sheffield Young, John, minister, Greenock Young, J., jr., B. Sc., assis. lib. Glas. Coll Young, John M., M.A., stu., Glasgow Young, R. B., M.A., st., Dowanhill Young, Thos., M.D., Manchester Young, T. C., jr, M.A., B. L., LL. B., Gl. Young, Wm. G., M.D., Glasgow Young, W., minister, Barrhead Yuille, James, minister, Peterhead

The following Names have been added to the Registration Book since the Register was made up.

Harvey, James, M.A., teacher, Glasgow. M'Corkindale, Duncan, M.D., Holytown. Mair, John, B.L., law-clerk, Glasgow. Moore, Robert Thomas, C.E., B.Sc., Rutherglen

#### APPENDIX II.

## NAVAL ARCHITECTURE AND MARINE ENGINEERING.

A Lectureship on this subject has been instituted, and the first Course of Lectures will be held in the Session 1881-2.

#### Lecturer-J. G. LAWRIE, Esq.

The Course will extend from the beginning of November till the end of April. The Class will meet on Tuesdays and Thursdays at 3 P.M., and on Saturdays at 9 A.M.

The Lectures on Ship Building and on Marine Engineering will be distinct. Those on Ship Building will comprise:—Fundamental Theorems; Operation of Ships in Work at Sea; Elements from which excellence arises; Principles and Practice used in Designing Ships for different Services and Speeds; Practical Operations in Ship Building; Materials used in the Construction of Ships; Manner in which Scantlings of the Parts of Ships are assigned; Measurement of Ships; &c.

The Lectures on Marine Engineering will comprise:—The Steam Engine and its Past Progress; the Marine Steam Engine; Mechanical Theorems involved in the Operation of the Steam Engine; Theorems regarding Heat and its Work; Action of the Marine Steam Engine in Work at Sea; Elements from which excellence arises; Mode of Measuring the Resultant Effect of the Steam Engine; Modes by which the Resultant Effect is used in the Propulsion of Ships; Practical Operations in the Building of Steam Engines; Materials used in the Construction of Steam Engines; Manner in which the Dimensions of the Parts are assigned in Practice, &c.

Fee for the Course, £2 2s.

#### APPENDIX III.

## UNIVERSITY OF GLASGOW LOCAL EXAMINATIONS.

#### BOARD OF MANAGEMENT.

Vice-Chancellor and Principal John Caird, D.D., President.

Professor W. P. DICKSON.

Professor Stewart.

Nichol.

, FERGUSON.

.. RAMSAY.

, Јевв.

,, KAMSAY.

" M'KENDRICK.

.. E. CAIRD.

,, CLELAND.

,, Young.

,, JACK.

.. Berry.

,, LINDSAY, F. C. College.

Professor Stewart, Secretary.

#### EXAMINERS.

Frederic Archer; Professor Balfour, D.Sc.; James Bonar, M.A.; James T. Bottomley, M.A.; Professor E. Caird, LL.D.; Rev. Colin Campbell, B.D.; Professor Cleland, M.D.; Benj. F. C. Costelloe, M.A.: Professor W. P. Dickson, D.D.: Professor Dittmar, Anderson's College: J. J. Dobbie, D.Sc.: J. G. A. Dow, M.A.: Rev. A. F. Fraser, B.D.: Professor Ferguson, M.A.: Professor Grant, LL.D.: R. Greenlees, School of Design; W. R. Herkless, M.A.; John Hutcheson; John Hutchison, M.A.; Professor Jack, LL.D.; Professor R. C. Jebb, LL.D.; W. Y. King, M.A.; Professor Lindsay, D.D., Free Church College; Louis Moriarty, B.A.; J. H. Muirhead, B.A.; Alex. Murdoch; John MacCunn, M.A.; Rev. Alex. R. M'Ewen, B.D.; Donald Macfarlane; Professor M'Kendrick, M.D.; Professor Nichol, LL.D.; Rev. Jas. Orr, B.D.; Rev. W. Patrick, B.D.; Professor Ramsay, LL.D.; Professor Robertson, D.D.; J. M. Robertson, M.B.; E. A. Sonnenschein, M.A.; Professor Stewart, D.D.; Professor Sir W. Thomson, LL.D.; Professor Veitch, LL.D.; Francis W. Walrond, B.A.; J. C. Watt, B.A.; J. Wood, M.A.; J. Muir Wood; Professor Young, M.D.

The Board may add to the number of Examiners before the date fixed for the Examination.

#### LOCAL CENTRES AND SECRETARIES, 1881.

Ayr, -	_	_		_	Rev. John Miller.
Closeburn,	-	-	-	-	Rev. D. Ogilvy Ramsay.
Dumbarton,	-	-	-	-	Rev. Daniel Gunn, M.A.
Dunoon,	-	-	-	-	Rev. R. M'Morran.
Fort-August	us	-	-	-	Charles Maclean, Esq., M.B.
Greenock,	- 1	-	-		M. F. Dunlop, Esq., Writer.
Hamilton,	-	-	-	-	James Loudon, Esq., M.D.
Helensburgh	,	-	-	-	Rev. John Baird, B.D.
Kilmarnock,		-	-	-	J. P. Stevenson, Esq., Solicitor.
Lerwick,	-	-	-		A. Laurenson, Esq.
London,	-	-	-	-	James Bonar, Esq., M.A.
Paisley,	-		-	-	Rev. A. F. Fraser, B.D.
Rothesay,	-	-	-	-	Rev. J. F. Macpherson, B.D.
Thurso,	-	-	-		Rev. C. S. Findlay.

#### REGULATIONS FOR 1881.

The Examinations will commence on Tuesday, May 23, 1882, at 9 A.M., and will be continued for four days. Both boys and girls are admitted, but boys are not admitted above the age of 18.

Printed forms, in which candidates are to make application, may be obtained from the Secretary at the University, in the end of March. Candidates must fill up and return these forms before the 18th April, forwarding the fees at the same time. Serious inconvenience is caused

when applications are received after the date mentioned.

PLACES OF EXAMINATION.—Candidates will be examined at the University, Glasgow, and at such places as the Board may appoint as Local Centres. The Board undertake to establish a Local Centre in any district in Scotland \* (excepting the other University seats, St. Andrews, Aberdeen, and Edinburgh), upon the following conditions:—1. A Local Committee of those interested in the higher education of the district must be formed, and must make arrangements for the proper management of the Examination. 2. This Committee must guarantee the appearance of at least six Candidates, or a sum equivalent to their fees. 3. Any expenses incident to the Examination in each Local Centre (but not including fees to Examiners) must be borne by the Local Committee.

The Secretary of the Local Committee will receive from the Candidates belonging to the district their forms of application, duly filled up, and their fees, and will transmit them on the 19th April to the Secretary at

the University.

CERTIFICATES.—The Certificates granted by the Board are of three grades, viz.:—

I. Junior, for both boys and girls.

III. Higher for Women.

<sup>\*</sup> Special arrangements will be made for other countries, in the case of members of the Correspondence Classes of the Glasgow Association for the Higher Education of Women.

They are signed by the Vice-Chancellor of the University, and specify in

each case the subjects in which the Candidate has passed.

The subjects of Examination, proficiency in which gives a right to a Certificate, are divided into two classes—those that are Common to all the Certificates, and those that are Special to the several Certificates. All Candidates must take the Common Subjects, and must make a selection from the Special Subjects, according to the grade of Certificate desired. Candidates for the Junior or Senior Certificate may, and Candidates for the Higher Certificate must, take the Common and the Special Subjects in different years. The names of those who pass in the Common Subjects are registered, but no Certificate is issued till the Candidates have also passed in the Special Subjects.

Candidates may also present themselves for Examination in Drawing and Music, and their proficiency in these Extra Subjects will be recorded in the Certificate, but the numerical values obtained will not be

reckoned in any competition.

The Time Tables should be consulted by Candidates in selecting their lines of study, so as to avoid, as far as possible, the inconvenience to themselves consequent upon choosing subjects arranged for consecutive hours.

The following are the Common Subjects, viz.:—For Junior, for Senior, and for Higher Certificate—1. English; 2. History; 3. Geography; 4. Arithmetic; 5. Scripture History; 6. Latin.

Girls are not required to take Latin.

Candidates for the Junior Certificate must offer themselves for examination in not less than two and not more than five special subjects. The subjects are arranged in four departments, and the subjects selected by any candidate must be taken from at least two of the departments. Department A comprehends—1. English Composition; 2. English Literature; 3. History and Geography; 4. Scripture History Department B—1. Latin; 2. Greek; 3. French; 4. German. Department C—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department D—1. Chemistry; 2. Botany; 3. Zoology; 4. Physiology; 5. Geology and Physiography. From Department D not more than one subject may be taken.

Candidates for the Senior Certificate must profess not less than two, nor more than six subjects, selected from at least two of the departments in which the special subjects for this Certificate are arranged. Department E comprehends—1. English Literature; 2. History; 3. Political Economy; 4. Logic; 5. Scripture History. Department F—1. Latin; 2. Greek; 3. French; 4. German. Department G—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department H—1. Chemistry; 2. Botany; 3. Zoology; 4. Human Physiology; 5. Geology. From Department H not more than one subject may be taken.

The Higher Examination is open to all women who (a) have taken the Senior Certificate in the Local Examinations of any University, or (b) having attained the age of 18 years, have passed in the Common Subjects. Candidates must offer themselves for examination in at least three, and not more than six subjects, selected from at least three out of the five departments in which the special subjects for this examination are arranged. Department A comprehends—1. English Language and Literature: 2. History of English Literature. Department B—1. Latin; 2.

Greek; 3. French; 4. Italian; 5. German. Department C—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department D—1. Psychology, Logic and Metaphysics; 2. Moral Philosophy; 3. Political Economy; 4. History; 5. Scripture. Department E—1. Chemistry; 2. Botany; 3. Geology and Physical Geography; 4. Zoology; 5. Physiology.

The successful candidates for the Junior Certificate are ranked in two Divisions, the first including those who pass in three or more than three special subjects; the second, those who pass in only two special subjects. The candidates in each Division are ranked in two Classes. In determining the order of merit, the aggregate of the marks gained in the several subjects is taken; but in the case of candidates who take more than three special subjects, no marks are given for such additional subjects unless the candidate has gained more than 40 per cent. of the attainable marks; and the marks added from such additional subjects are the aggregate marks gained, minus the 40 per cent.

Those who obtain Senior Certificates are classified in like manner, with a like deduction in the case of candidates who take more than three

special subjects.

In the Higher Examination the deduction in the case of candidates

who take more than three special subjects is 50 per cent.

No certificate is granted if the subjects in which the candidate has passed belong to only one department. In the Higher Examination a candidate, in order to obtain a certificate, must pass in subjects taken from at least three departments.

Candidates for the Junior Certificate are required to pay a fee of 20s. No additional fee is payable if the candidate take the Common Subjects at one examination and the Special Subjects for the Junior Certificate at

another.

Candidates for the Senior Certificate holding a Junior Certificate of Glasgow University, or of any University whose Certificates may be recognised by the Board, are required to pay a fee of 20s. Candidates who do not hold such a Certificate are required to pay 30s. Candidates who take the Common Subjects at one examination, and the Special Subjects for the Senior Certificate at another, are required to pay a fee of 20s. for each examination.

The fee for the Higher Examination for Women (Special Subjects) is

Two Guineas.

Any holder of a Certificate (Junior, Senior, or Higher) may, on payment of a fee of ten shillings, be admitted to examination in one or more additional subjects, with the view of adding to the value of the Certificate previously obtained.

Candidates who have not been successful may re-appear for examina-

tion on the following terms:-

1. Any candidate who has failed in only one of the Common Subjects shall, on application in a subsequent year, be admitted to examination in that subject without payment of additional fee, and without requiring to undergo examination again in the subjects already passed.

2. Any candidate who has failed in more than one of the Common Subjects shall, on application in a subsequent year, be admitted to examination in the whole of the Common Subjects on payment of a fee of

ten shillings.

3. Any candidate who has failed in only one of the Special Subjects

shall, on application in a subsequent year, be admitted to examination in that subject, so as to complete the minimum requirements for a certificate, without payment of additional fee, and to examination in any other

subject or subjects on payment of a fee of ten shillings.

4. Any candidate who has failed in more than one of the Special Subjects, but who has passed in such subject or subjects as, with the addition of one of those in which the candidate failed, would have sufficed for a certificate, shall, on application in a subsequent year, be admitted to examination in that subject without additional fee, and to examination in any other subject or subjects on payment of a fee of ten shillings.

Fees are not returned under any circumstances.

Bursaries and Prizes are awarded to those who excel in the examinations.

#### EXAMINATION OF SCHOOLS.

I. Applications to the Board for the appointment of Examiners may be made before the 1st of April, 1882. The subjects in which examination is sought must be submitted to the Board for approval.

The Board reserve the right of declining to entertain an application

for the appointment of Examiners.

The Examiners' reports will be submitted to the Board before transmission to the Managers or Head-Masters of the schools examined.

The fee for the services of each Examiner is three guineas per day of six hours, whether spent in examining classes or reading written papers.

II. The Managers of any school may present their pupils at the Local

Examinations on the following conditions:—

- 1. The pupils shall be arranged in at most three divisions corresponding to the three groups of Local Examination subjects. When they are arranged in three divisions, papers on the Special Subjects for the Senior Certificate shall be set to the highest division; papers on the Special Subjects for the Junior Certificate to the second division; and papers on the Common Subjects to the lowest division. When they are arranged in two divisions or in one division only, the Managers shall specify the two groups or the one group of subjects in which they wish their pupils examined.
  - No Certificates shall be given to the pupils thus examined.
     A fee of 5s. shall be paid for each pupil.

A special report, stating the results obtained by each pupil in the

several subjects of examination, will be sent to the Managers.

Detailed information as to the Subjects of Examination and Bursaries may be found in the Report of the Board for 1881 (containing also the Regulations for 1882), published by Mr. MacLehose, Publisher to the University, 61 St. Vincent Street, Glasgow.

#### APPENDIX IV.

#### STUDENTS' SOCIETIES.

#### THEOLOGICAL SOCIETY.

The object of the Society is to discuss, by means of essays and debates, theological and ecclesiastical questions. The membership of the Society is open to all students attending the Glasgow University Divinity Hall.

Honorary President.

Rev. James Robertson, D.D., Professor of Oriental Languages.

President-John D. Douglas.

Vice-President—Andrew Rutherfurd, M.A.

Secretary—John A. Clark, M.A.

Committee.

George Dods, M. A. Richard Simpson.

A. Cameron Watson, M.A.

(With two additional members to be elected in November.)

#### MEDICO-CHIRURGICAL SOCIETY.

The principal business of the Society is the prosecution of Medical Research by Dissertations and Debates.

All Medical Students and Medical men of one year's standing are eligible for Ordinary Membership, which may be obtained on payment of the Annual Subscription of Two Shillings and Sixpence.

All Qualified Medical Practitioners of more than one year's standing

are eligible for Extraordinary Membership.

Meetings of the Society are held in the Forensic Medicine Class-Room every Friday Evening during the Winter Session at 7.30 P.M.

Honorary President.
Professor John G. M'Kendrick, M.D., F.R.S.E.
President—John Lindsay Steven, M.B., C.M.

Vice-Presidents.

Senior-J. Macpherson Lawrie.

Junior-J. M. Young, M.A.

Secretaries.

Corresponding—R. Bruce Young, M.A.

Minute—Duncan Love.

Treasurer—Robert Beith.

Committee.

Anstruther Davidson.
John M'Call.
J. W. Grange.

J. Yule Mackay.

A. J. Hood.
W. A. Forsyth.
J. K. Duff, M.A.
W. F. Somerville, M.A.

Henry Rutherfurd, M.A.

#### DIALECTIC SOCIETY.

Honorary President.

Edmund Law Lushington, LL.D., D.C.L., Emeritus Professor of Greek in the University.

President—Andrew Rutherfurd, M.A.
Vice-President—George Saunders.
Secretary—George Dods, M.A.
Treasurer—John A. Clark, M.A.

#### General Board.

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John B. Cumming, M.A.
Angus S. Gunn.
John C. Guy, M.A.
Joseph Jones.

Cosmo G. Lang. J. Yule Mackay. Alex. Moncrieff Mitchell. Hugh Y. Reyburn, M.A. Henry Rutherfurd.

Richard Simpson.

The Society meets weekly during the Session for the discussion of Literary, Philosophical, and Political Subjects.

All Students of the University are eligible for ordinary membership, which is obtained by payment of the annual subscription of one shilling. The Roll shall be closed each session January 15.

#### DUMFRIESSHIRE AND GALLOWAY LITERARY SOCIETY.

The object of this Society is to bring together Students from the Shires of Dumfries, Kirkcudbright, and Wigton.

Any Student who is a native of these Shires, or is connected with them, may become a member on payment of the annual subscription of one shilling.

Meetings are held fortnightly during the Session, when essays are read and criticised and subjects debated.

The following are the office-bearers for next Session :-

Honorary President.

Alexander Nicolson, Esq., Sheriff-Substitute, Kirkcudbright.

President—Thomas E. S. Clarke.

Vice-President—Ralph R. Hogarth.

Treasurer—Charles Ritchie.

Secretary-George Neilson, 100 Great Western Road.

#### Committee.

T. E. S. Clarke. R. R. Hogarth. Charles Ritchie. George Neilson. William Pattullo. John Johnston, Francis Stoddart. Thomas Wilson.

And one member (first year's student) to be elected in November.

#### GLASGOW UNIVERSITY CHORAL SOCIETY.

The foundation of this Society was agreed upon at a meeting presided over by Dr. Young at the close of the Session 1879-80. The office-bearers of the Society were elected at a public meeting attended by Professors and Students in November, 1880, and during the Winter Session on Saturday evenings practisings were held in the Lower Hall of the Museum, conducted by Mr. Montague Smith, Organist to the University.

On April 1st, 1881, the Society gave the first annual concert, under the patronage and in the presence of the Principal and the Professors of the University, and a large audience of Students and their friends.

During the Session 1881-82 the Society will continue its practisings, and at a meeting to be held early in November arrangements will be made to suit Students who are desirous of becoming members.

#### President-Professor John Young, M.D.

#### Office-Bearers.

Mr. R. B. Young, M.A. Mr. H. P. Webb. Mr. G. M. Dods, M.A. Mr. W. Mirrlees. Mr. D. Marr, M.A. Mr. M. M. Leslie. Mr. R. Fullerton.

Mr. G. B. Stark.

Mr. W. F. Quaife, B.A.

Musical Secretary—Mr. J. A. Robertson, B.A.

Acting Secretary-Mr. W. F. Somerville, M.A.

Musical Librarian-Mr. J. Stafford.

Treasurer—Mr. W. C. Muir.

Conductor-Mr. Montague Smith.

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#### SEVENTH DIVISION OF PROFITS, 1881.

THE SEVENTH QUINQUENNIAL INVESTIGATION into the Affairs of the Association was made as THE SEVENTA OFFICE TO A SECRETARY AND THE LIFE AT ALBEST OF THE ASSOCIATION WAS IMAGE AS at Christmas, 1880, when it was ascertained that the total Assets, including the present value of the net premiums, were £2,316,982,88. 4d.; and total Liabilities, including the present value of the sums assured, £2,209,212, 10s.; leaving a Free Divisible Surplus of £107,769, 188. 4d.

NINETY PER CENT. of the Surplus was appropriated to the Assured to provide for the following REVERSIONARY BONUS ADDITIONS to all policies entitled to participate in Profits, viz.:—

(1.) An addition to the Whole Term Policies, of a Bonus at the rate of £1 10s. per cent. per annum on the Sum Assured.

(2.) An addition to the Endowment-Assurance Policies of a Bonus at the rate of £1 per cent per annum on the Sum Assured.

The Eighth Division of Profits will take place as at Christmas, 1885.

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# Clasgow School of Art and Haldane Academy.

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THE Course of Instruction embraces Ornament, with the Principles of Design, and the Study of Historic Styles; the Human Figure from Copies, the Cast and the Living Model, with the Study of the Bones and Muscles; Flower, Landscape. Mechanical and Architectural Drawing; Plane Geometry, Perspective and Orthographic Projection; Painting in Oil and Water Colours; Modelling, etc.

LECTURES ON ANATOMY AS A FINE ART BY DR. KNOX, LATE OF THE GLASGOW UNIVERSITY.

Gold, Silver, and Bronze Medals, and Jother Prizes, are awarded to Meritorious Students by the Department of Science and Art, in addition to Local Prizes.

The Session commences First Monday in September, and ends the 30th day of June.

MARK BANNATYNE, Hon. Secy. EDWARD R. CATTERNS, Secy and Treas.

May, 1881

## SCOTTISH MUTUAL LIFE

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26 ST. ANDREW MANAGER.

T. B. SPRAGUE, M.A.

UNIVERSITY OF ILLINOIS-URBANA 3 0112 054205551

WM. FINLAY.

ANNUAL INCOME. -ACCUMULATED FUND.

£323,166 2,414,336

The new Assurances effected during the Year ending 1st March, 1881, amounted to about £550,000.

The Whole Profits are divided among the Members every five years. At the last Division the Profits were £234,637. Policies effected on or before 1st March, 1835, are now more than doubled in amount

Upwards of £4,540,000 have already been paid to the representatives of deceased Members.

Glasgow Office: 128 St. Vincent Street. A. H. MORGAN, Resident Secretary.

## Scottish Widows' Fund

MUTUAL LIFE ASSURANCE SOCIETY.

SECURITY.-- The Fund now amounts to over £7,400.000, being the largest Life Assurance Fund in the Kingdom.

PROFIT. - At the recent Division, the Bonuses on a Policy for £1,000 varied from £17 to £38, 14s. per annum, or from £119 to £271 for the Seven years. The total Surplus exceeded £1,300,000.

Copies of the Society's Prospectus and Report on the Division of Profits may be had on application.

Glasgow Office: 114 West George Street.